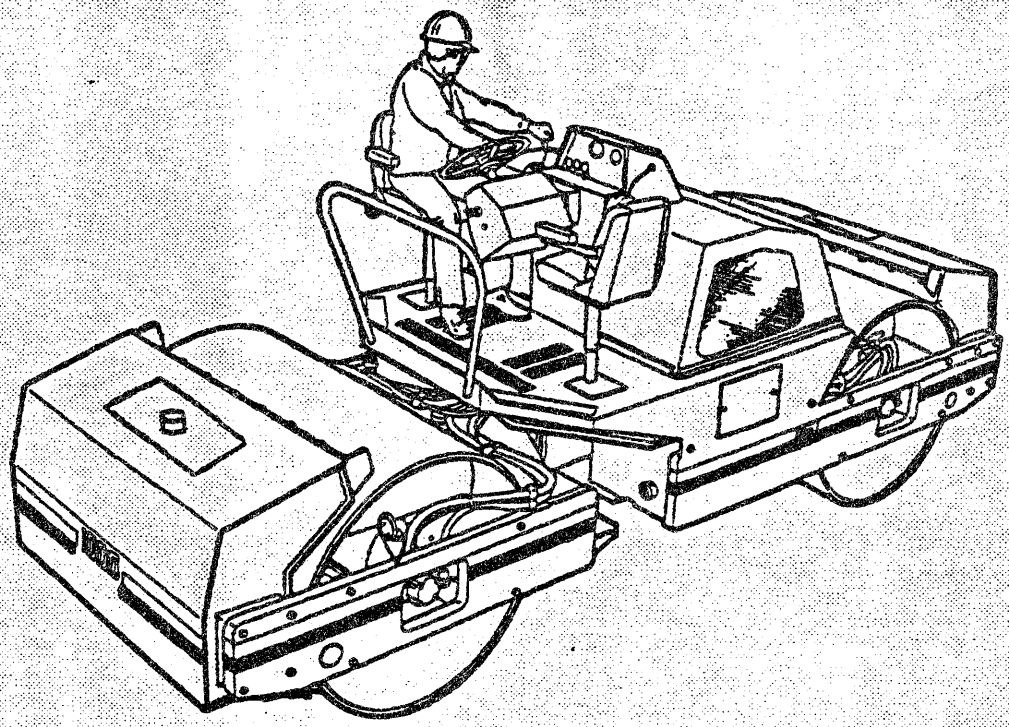
REXWORKS

MANUAL NO. 548
MODEL SP1000
VIBRATORY ROLLER
(SILVER SERIES)
(N 392)
EFF. S/N 10GS258



PARTS & SERVICE MANUAL

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(SILVER SERIES)

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(N 392)

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NOTE: Please read the entire Operator's Manual 549 for your Rex Model SP-1000 (Silver Series) Vibratory Roller before start-up.

FOREWORD

THANK YOU... for your recent purchase of a new REX Model SP-1000 Silver Series Dual Drum Drive Vibratory Roller. Your SATISFACTION is our aim in making this high quality product.

Designed specifically for high density asphalt compaction, your REX Model SP-1000 Silver Series Dual Drum Drive Vibratory Roller features include: a 117 HP (87KW) Turbo-Charged 4239A John Deere Engine; A Single Lever that Controls Machine Speed and Travel Direction; Independent Hydrostatic Drum Drive with Infinite Speed Control from 0 - 8 MPH (12.8 KPH); Hydrodynamic Braking for Smooth Quick Stop and Smooth Reversing of Vibrating Forces; Disc Parking and Emergency Brakes; Direct Vibration Drive; Vibration that Stops Automatically Before Machine Comes to a Stop; Vibration that Starts Automatically when Machine Travel is Started and Automatically Reverses the Direction of the Vibration Forces when the Machine Travel Direction is Reversed; 9 Position Dynamic (Centrifugal) Force Selection up to a Maximum of 26,935 lbs. (12,216 kg.) at 2500 VPM Per Drum; Frequency Indicator Gauge; Scrapers and Pressure Water Spray System.

All major components such as engine, transmission, axles, differential and driveline units are widely accepted in the construction field.

REXWORKS INC. feels justified in being as proud of the new REX Model SP-1000 Silver Series Dual Drum Drive Vibratory Roller as we know you shall be, and in both the Operator's and Service Manuals will be found a listing of those items normally requiring your attention in the operation and servicing of your machine.

Parts and service bulletins, along with REX TIMELY RECORD UPDATES, provide rapid response to Distributor/Dealer parts and service personnel.

Your REX Dealer is determined to serve your needs efficiently, Personnel, Facilities, Replacement Parts and/or Service Guidance, Please contact him.

We look forward to the continuation of a mutually beneficial business association for many years to come.

SAFETY ALERT SYMBOL

The above pictorial Safety Alert Symbol denotes Important Safety Information. The Symbol is used in conjunction with the following Safety Signal Words that alert a person to existence and relative degree of Safety Hazard.

SAFETY SIGNAL WORDS

CAUTION

The Signal Word "CAUTION" denotes a potentially hazardous situation to a person which may result in "Personal Injury" if recommended precautions are not taken.

WARNING

The Signal Word "WARNING" denotes a potentially hazardous situation to a person which may result in "Serious Injury or Death" if recommended precautions are not taken.

DANGER

The Signal Word "DANGER" denotes an extreme intrinsic hazardous situation to a person which would result in high probability of "Death or Irreparable Injury" if recommended precautions are not taken.

SAFETY RULES

IMPORTANT ! Please read the entire Operator's Manual #549 for your REX Model SP-1000 DUAL DRUM VIBRATORY ROLLER before Startup. Considerable time and effort have been invested in making the REX Model SP-1000 a safe machine.

Safety, based on years of experience and technical skill, has been built into these high quality products. Your safety and the safety of those around you depends upon you using care and good judgement in the operation and maintenance of these high quality products. It is up to you to follow the best safety practices. Know the positions and functions of all controls before attempting to operate. Only a qualified operator(s) should be allowed to use/operate the REX Model SP-1000 DUAL DRUM VIBRATORY ROLLER.

We urge you to use protective devices. Use caution when working on or around moving parts. Do not open hydraulic lines or components under pressure. Always use the safety belt when provided with cab options. Keep safety gloves readily available. **IMPORTANT! HAVE AN OPERABLE FIRE EXTINGUISHER AT HAND AT ALL TIMES.**

All equipment has limitations. Understand the speed, braking, steering, stability and other characteristics of the machine in a safe area before starting to work. The following are some prescribed SAFETY RULES that are applicable to this equipment and can be incorporated easily into your RULES FOR SAFETY. Please review them.

Avoid loose clothing, particularly cuffs and scarfs.

Know what safety equipment is required to use this machine. A hard hat, safety glasses, reflector type vest and respirators are some of the types of equipment you may need.

Know all hand signals that may be used and who is responsible for signaling.

If you are roading the machine, know what warnings must be placed on the machine and if you will need an escort.

Warn all personnel who may be servicing or in the path of the machine.

Correct and/or report any apparent machine defects.

Check to see that all guards, etc. are secure and in place.

Note any hazards or obstructions that may be encountered such as ditches, overhead wires, blocks, etc. and take necessary precautions.

Keep deck, steps and floor clean so that they do not become cluttered or slippery. Keep steps and grab handles free of oil and grease.

SAFETY RULES- (Continued)

Insure proper ventilation when starting in an enclosed area.

Be particularly careful if this is not the machine you would normally operate.

Never leave machine unattended with engine running. However, if you must, be sure that you set the emergency stop or parking brake.

Parking in a clear authorized area and set parking brake before dismounting. Use and lock protective covers.

Secure all caps and filler plugs for fuel, hydraulic oil fluid, battery covers and radiator.

Know levels for engine coolant, crankcase, hydraulic oil and fuel tank.

Always place controls in neutral and set parking brake before starting.

Test braking while moving slowly.

Test steering, right and left, while moving slowly.

Listen to engine while moving slowly to determine any unusual noises.

Report any defect in machine noted during operation.

Observe instruments and gauges frequently.

Do not permit riders on machine.

Know and observe any traffic flow patterns on your job and obey flagman, road signs or signals.

Do not adjust machine with engine running except when necessary.

Do not open hydraulic lines that are under pressure or if too hot to touch.

Do not smoke while refueling, turn off engine.

Connect steering lock link when working on machine.

See towing instructions in the Operator's Manual #549 before attempting to tow a disabled roller.

REX SP-1000 SPECIFICATIONS

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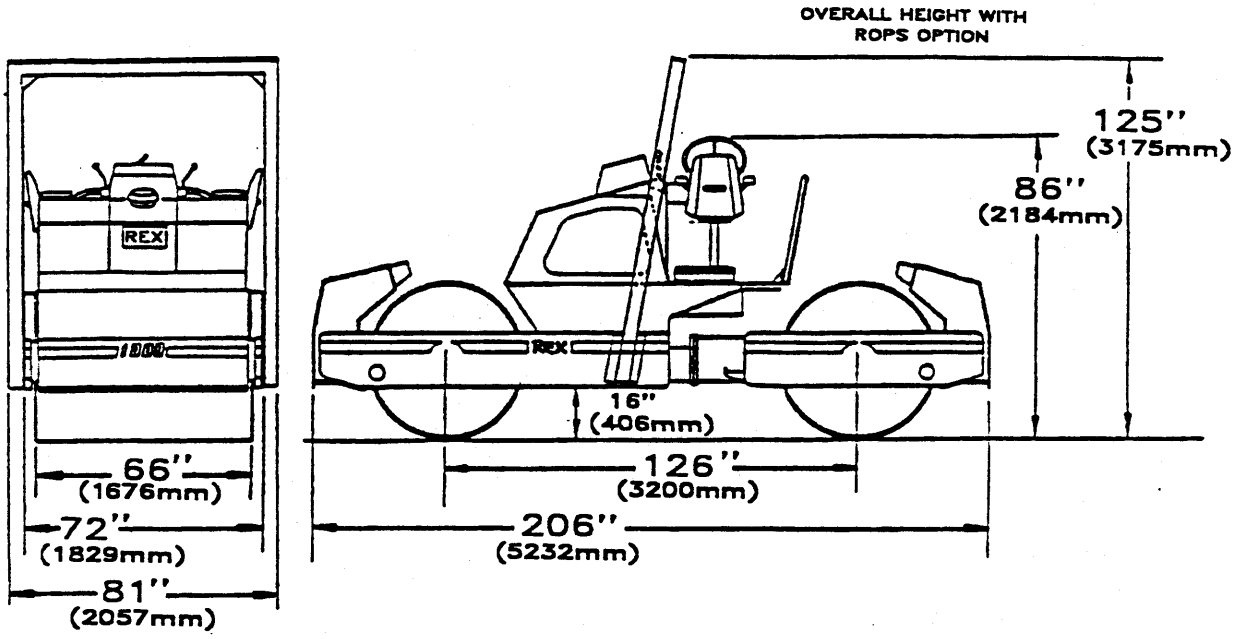

PERFORMANCE SPECIFICATIONS

ITEM	*DESIGN DATA* *English*	*Metric*
MAXIMUM TRAVEL SPEED (Forward or Reverse)	*8 MPH*	*12.8 KPH*
VIBRATION FREQUENCY RANGE:	*0-2500 VPM*	
VIBRATION DYNAMIC FORCE:		
HI	*26,935 LBS.*	*12,216 KG*
LOW	*6,609 LBS.*	*2,997 KG*
INSIDE TURNING RADIUS	*172"*	*4,369 mm*
OUTSIDE TURNING RADIUS	*238"*	*6,045 mm*
WORKING WIDTH	*66"*	*1,676 mm*
WORKING WEIGHT	*21,800 lbs.*	*9,888 KG*

ENGINE SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
TYPE	JD 4239A	
NUMBER OF CYLINDERS	4 cylinder	
BORE	4.19 in.	106 mm
STROKE	4.33 in.	110 mm
TOTAL DISPLACEMENT	239 cu. in.	3.9 L
HORSEPOWER	117 @ 2500 RPM	87 KW
IDLE SPEED	800 RPM	
HIGH IDLE SPEED	2650 RPM no load 2500 RPM full load	
GOVERNOR	Variable Speed Type	
COOLING SYSTEM		
Type	Water	
System Capacity	21 qts.	20 liters
Thermostat	180° F.	82° C
Pressure Cap Rating	7 PSI.	0.48 ATM
WEIGHT	1005 lbs. (Dry)	457 kg.
CRANKCASE CAPACITY	13 qts.	12.3 L
With Filter Change	15 qts.	14.2 L

BATTERY SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
TYPE 4D		
AMPERES	170	
VOLTS	12	

HYDRAULIC SYSTEM SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
HYDRAULIC TANK CAPACITY (OIL TYPE, Mobil DTE-15)	45 gal.	170 liters
OIL FILTER ELEMENTS		
Quantity	2	
Type	Screw On	
HYDRAULIC PUMP, STEERING		
Type	Gear	
Relief Pressure Setting (High Idle)	2,000 PSI.	136 ATM.
Maximum Flow @ 2500 RPM.	13 GPM.	49.2 L/Min.
POWER STEERING CYLINDER		
Bore	4 in.	102 mm.
Stroke	12 in.	305 mm.
POWER STEERING, TURNS		
Right-to-Left	6	
Left-to-Right	5-1/2	

BRAKE SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
SERVICE BRAKES	Hydrostatic	
EMERGENCY STOP OR PARKING BRAKE	Spring-Applied Fully Enclosed Multiple Disc	

FUEL SYSTEM SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
FUEL TYPE	Diesel	
FUEL TANK CAPACITY	45 gal.	170 liters
FUEL INJECTORS		
Quantity	4	
Size	9 MM. Pencil Type Direct Injection	

TRANSMISSION SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
SYSTEM RELIEF PRESSURE, TRACTION (At 100-150°F/37.7-65.5°C Oil Temp. and 2500 RPM Engine Speed)	5,000 PSI. Max	340 ATM.
SYSTEM RELIEF PRESSURE, VIBRATION (At 100-150°F/37.7-65.5°C Oil Temp. and 2500 RPM Engine Speed)	3,000 PSI. Max.	204 ATM.
TANK CAPACITY	45 gal.	170 liters
PORT SIZES		
Main Line Inlet/Outlet Ports (2)	1" Inlet	25.4 mm
1" Outlet & 2" Outlet		25.4 mm

DRUM SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
ENGINE END		
DRUM DIAMETER	48"	1,219 mm
DRUM WIDTH	66"	1,676 mm
DRUM SHELL	3/4"	19.1 mm
TANK END		
DRUM DIAMETER	48"	1,219 mm
DRUM WIDTH	66"	1,676 mm
DRUM SHELL	3/4"	16 mm

SPRINKLER SYSTEM SPECIFICATIONS

ITEM	DESIGN DATA English	Metric
SPRINKLER TANK CAPACITY		
FRONT (ENGINE) DRUM END	135 gal.	511 liters
REAR (OPPOSITE) DRUM END	135 gal.	511 liters

OPTIONS

FRONT & REAR HEADLIGHTS
INTERMITTANT WATER SPRAY
HYDRAULIC OIL TEMPERATURE GAUGE
TACHOMETER
SPEEDOMETER
COCOA MAT
ROPS

REXWORKS

STANDARD WARRANTY

REXWORKS warrants to Distributor and Customer that its products are free from defects in material and workmanship, conform to any drawings or specifications furnished by Customer or Distributor and agreed to by REXWORKS in writing and conform to any description made by REXWORKS in writing. This warranty is subject to the REMEDY clause stated herein. Except for the foregoing warranty it is agreed that THERE IS NO WARRANTY OF MERCHANTABILITY, NOR ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED.

REMEDY: All claims must be made within six (6) months of delivery to Customer. Upon satisfactory proof of claim, REXWORKS will within a reasonable time, make necessary repairs or supply replacement parts, or where the foregoing is deemed by REXWORKS to be commercially impractical, refund the price received by REXWORKS for the Product upon return of the Product. Repair or replacement parts provided under this remedy will be supplied by REXWORKS free of charge, F.O.B. shipping point, freight prepaid and allowed at the lowest available commercial rate. Charge for repairs, replacement or returns for credit will not be allowed unless authorized by REXWORKS in writing. REXWORKS will not be liable for any other costs, damages, or expenses that may result. The foregoing remedy is SOLE AND EXCLUSIVE and states the full extent of REXWORKS' liability. NO OTHER REMEDY WILL BE ALLOWED, WHETHER IN CONTRACT OR TORT (INCLUDING STRICT LIABILITY AND NEGLIGENCE.

PRODUCT SAFETY: Products designed and manufactured by REXWORKS are capable of being used in a safe manner: but REXWORKS cannot warrant their safety under all circumstances. CUSTOMER MUST INSTALL AND USE THE PRODUCTS IN A SAFE AND LAWFUL MANNER IN COMPLIANCE WITH APPLICABLE HEALTH AND SAFETY REGULATIONS AND LAWS AND GENERAL STANDARDS OR REASONABLE CARE.

CUSTOMER NOTES

INSTRUCTIONS FOR ORDERING PARTS

To assist your REXWORKS Distributor/Dealer in giving you prompt and expedient parts service, PLEASE furnish the SERIAL NUMBER of the machine for which parts are required. Specify quantity, part number and description when ordering.
ALWAYS give complete billing and shipping instructions and method of shipment.

MATERIAL LOST/DAMAGED IN TRANSIT

All shipments are to be inspected by the Customer/Consignee prior to acceptance. REXWORKS responsibility for loss or damage ceases upon delivery to a carrier. Any claims for delays, damages, or shortages occurring after REXWORKS delivers products to a carrier should be made directly to the carrier, by the Customer/Consignee.

DESIGN CHANGE DISCLAIMER

REXWORKS INC. reserves the right to make design changes without notice, and without being obligated to furnish such changes for machines previously sold.

WARRANTY DISCLAIMER

Equipment, accessories and components not manufactured by REXWORKS INC. are warranted only to the extent of that Manufacturer's warranty, from date of delivery and acceptance.

SUPERSTRUCTURE - INSTRUCTION DECALS AND NAME PLATES

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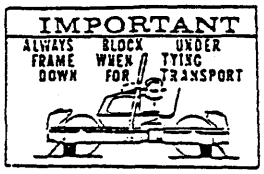
1

2



3

WATER

5

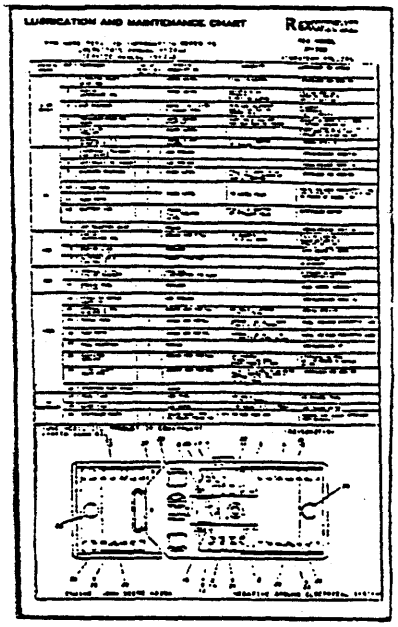
WARNING

CLEARANCE CLOSES.

STAND CLEAR WHEN ENGINE IS RUNNING.

USE STEERING LOCK LINK WHEN SERVICING MACHINE.

6



4

1000

13

REX

7

MANUALS

11

THIS IS NOT A SERVICE BRAKE
USE ONLY FOR PARKING
& EMERGENCY STOPPING

12

BRAKES MUST BE MANUALLY DISENGAGED BEFORE TOWING IF ENGINE IS NOT RUNNING

BOTH DRIVE MOTORS MUST BE DISCONNECTED BEFORE TOWING

14

ANOTHER QUALITY REX PRODUCT

MADE IN MILWAUKEE, WIS. USA

By REXWORKS Inc.

16

USE ONLY SYNTHETIC LUBE IN THIS GEARCASE

MOBIL SHC-629

8

DIESEL

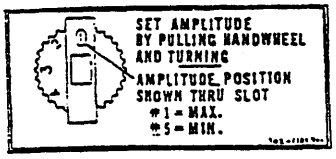
10

HORN

20

9

21



15

REX

31

ON

OFF

26

CAUTION

OPEN SLOWLY-5 PSI

HOT OIL

25

WARNING

TEST EMERGENCY/PARKING BRAKE EVERY DAY, AND ADJUST OR REPAIR BY QUALIFIED PERSONNEL AS NEEDED.

OTHERWISE MACHINE MIGHT NOT STOP.

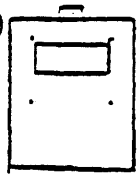
23

WARNING !

DO NOT ADJUST FORCE WITH ENGINE RUNNING

SERIOUS BODILY INJURY MAY RESULT

22



24

MANUAL VIBRATOR

18

PULL TO STOP ENGINE

34

FREQ ADJ TANK END

17

THROTTLE

28

WATER SPRAY

19

HYDRAULIC OIL

33

ENGINE END VIBRATOR

32

START

27

5 SERIES

35

FREQ ADJ ENGINE END

29

TANK END VIBRATOR

30

AUTO VIBRATOR

36

IMPORTANT

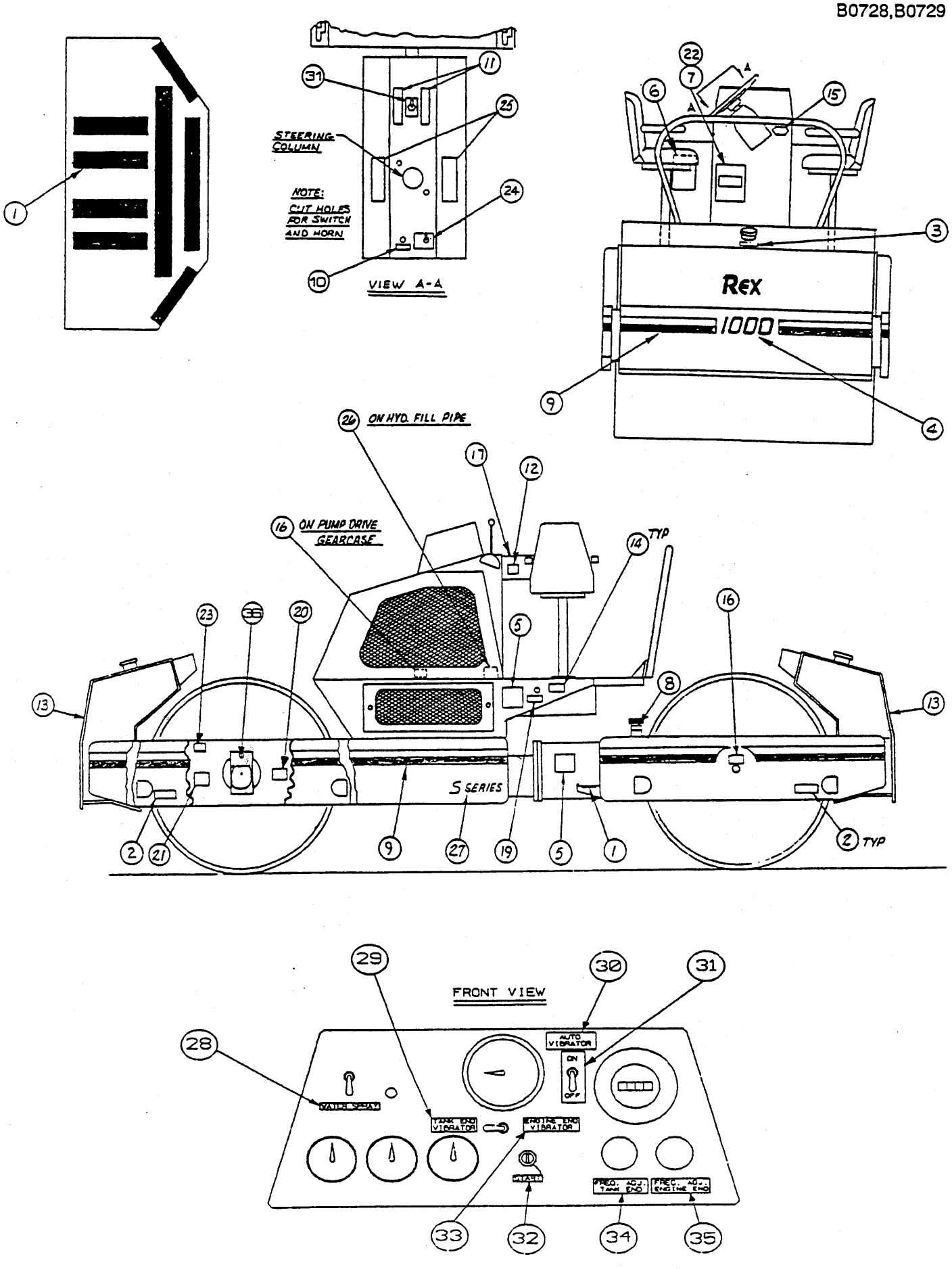
SET MAGNETIC SENSOR GAP AT .090"

SUPERSTRUCTURE - INSTRUCTION DECALS AND NAME PLATES

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-08085-01	16-3/4 FT	TRACTION TAPE
2	102-11649-01	4	TRANSPORT LABEL SP1000
3	102-09512-01	2	WATER DECAL
4	102-31808-01	2	1000 DECAL
5	102-31047-01	4	WARNING DECAL
6	102-50427-01	1	SERVICE CHART SP1000
7	102-10802-01	1	MANUALS DECAL
8	102-10768-01	1	DIESEL DECAL
9	102-13038-01	30	TAPE STRIPING
10	102-11003-01	1	HORN DECAL
11	102-11648-01	2	BRAKE INSTRUCTION DECAL
12	102-11425-01	2	TOWING DECAL
13	102-31762-01	2	"REX" DECAL
14	102-11382-01	2	REX QUALITY DECAL
15	102-11159-01	1	SERIAL NUMBER PLATE
16	102-11647-01	3	GEARCASE DECAL
17	102-09222-01	1	THROTTLE DECAL
18			NOT USED
19	102-10956-01	1	HYDRAULIC OIL DECAL
20	102-12530-01	2	ROLL SUMP DECAL
21	102-11813-01	2	AMP CHANGING DECAL
22	102-10801-01	1	MANUAL HOLDER
23	102-11489-01	2	WARNING DECAL
24	102-11143-01	2	MANUAL VIBRATION
25	102-31431-01	2	EMERGENCY BRAKE DECAL
26	102-31648-01	2	HOT OIL DECAL
27	102-31761-01	2	SILVER SERIES DECAL
28	102-11005-01	1	WATER SPRAY DECAL
29	102-13122-01	1	TANK VIB DECAL
30	102-11145-01	1	VIBRATOR DECAL
31	102-13123-01	1	ON/OFF DECAL
32	102-10090-01	1	START DECAL
33	102-13121-01	1	ENGINE VIB DECAL
34	102-13124-01	1	FREQ. ADJ. TANK END DECAL
35	102-13125-01	1	FREQ. ADJ. ENGINE END DECAL
36	102-11842-01	1	PICK-UP GAP DECAL

SUPERSTRUCTURE - LOCATION OF INSTRUCTION DECALS AND NAME PLATES

B0728,B0729



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36	102-11842-01	1	PICK-UP GAP DECAL

LUBRICATION AND MAINTENANCE CHART

50427CAD

LUBRICATION AND MAINTENANCE CHART

REXWORKS

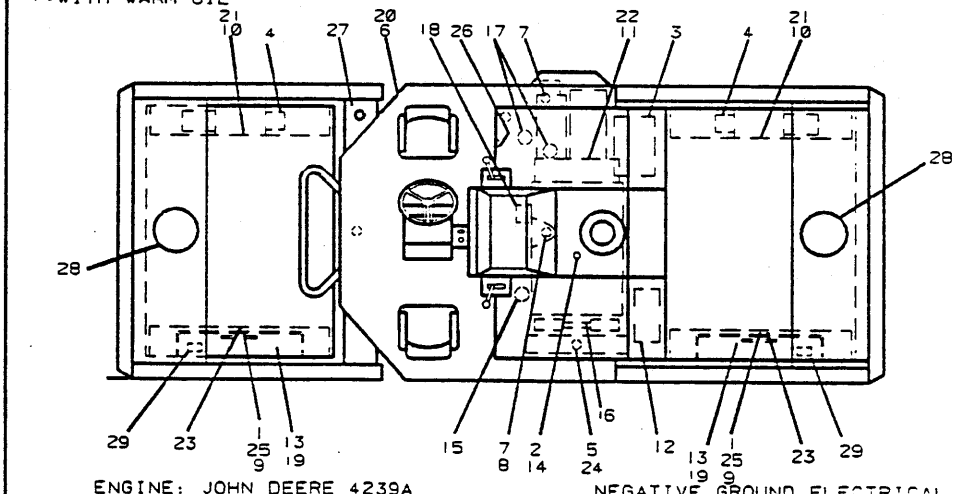
FOR MORE DETAILED INFORMATION REFER TO
OPERATOR'S MANUAL 549
SERVICE MANUAL •548

REX MODEL SP1000
(SILVER SERIES)
VIBRATORY ROLLERS

INTERVAL HOURS	REF	COMPONENT	NO. OF SERVICE POINTS	SERVICE DESCRIPTION	CAPACITY	LUBRICANT OR OTHER
10 OR DAILY	1	VIBRATOR SHAFT BEARINGS	1	CHECK LEVEL••	FILL TO LEVEL	•MOBILUBE HD 80W-90
	2	ENGINE CRANKCASE OIL	1	CHECK LEVEL	MAINTAIN AT PROPER DIPSTICK LEVEL	FOLLOW ENGINE MANUFACTURER'S SPECIFICATION
	3	AIR CLEANER	1	CHECK INDICATOR & CLEAN BOWL	REPLACE ELEMENT WHEN INDICATOR SHOWS RED	ELEMENT REXWORKS 102-11392-11
	4	EMERGENCY/PARKING BRAKE	2	CHECK BEFORE START-UP	MUST HOLD AGAINST MAXIMUM ENGINE POWER	ADJUST OR REPAIR AT ONCE (BEFORE OPERATING)
	5	RADIATOR COOLANT	1	CHECK LEVEL		ETHYLENE GLYCOL ANTI-FREEZE & CLEAN WATER
	6	HYDRAULIC OIL RESERVOIR	1	CHECK SIGHT GAUGE••	FILL TO CENTER OF GAUGE	•MOBIL DTE-15
50	7	STEERING CYLINDER END JOINTS	2	ADD GREASE		•MOBILGREASE SPECIAL
	8	ARTICULATING JOINT	4	ADD GREASE		•MOBILGREASE SPECIAL
	9	VIBRATOR BEARINGS	2	CHECK LEVEL	FILL TO LEVEL PLUG WITH ROLL INDICATOR BAR AT BOTTOM	•MOBILUBE HD 80W-90
	10	TORQUE HUBS	2	CHECK LEVEL	TO LEVEL PLUG	MOBIL SHC-629 SYNTHETIC LUBE DRAIN RUN-IN OIL AFTER FIRST 50 HOURS OF OPERATION
	11	PUMP DRIVE	1			
	12	BATTERY 12V	1	CHECK ELECTROLYTE LEVEL	FILL TO BOTTOM OF FILLER NECK	DISTILLED WATER
	13	HAND WHEEL	4	GREASE		•MOBILGREASE SPECIAL
150	14	ENGINE CRANKCASE OIL	1	DRAIN AND FILL	15 QUARTS (14.2 LITERS)	FOLLOW ENGINE MANUFACTURER'S SPECIFICATION
	15	ENGINE LUBE OIL FILTER	1	REPLACE		JOHN DEERE T19044
	16	ALTERNATOR & FAN BELTS	1	CHECK TENSION		TIGHTEN IF NECESSARY
300	17	HYDRAULIC OIL FILTER ELEMENT	2	REPLACE (INDICATOR IN RED)		ELEMENT REXWORKS 298-00191-53
	18	ENGINE FUEL FILTER	1	REPLACE		JOHN DEERE AR50041
1000	19	VIBRATOR MOTOR COUPLING	1	ADD GREASE		•MOBILGREASE SPECIAL
	20	HYDRAULIC OIL RESERVOIR	1	DRAIN AND REFILL	45 GALS. APPROX (170 LITERS)	•MOBIL DTE-15
	21	TORQUE HUBS	2	DRAIN AND REFILL	APPROX. 98 OZ. (HALF FULL)(2.9 LITERS)	MOBIL SHC-629 SYNTHETIC LUBE
	22	PUMP DRIVE	1	DRAIN AND REFILL	APPROX. 22 OZ. (.65 LITER)(TO LEVEL PLUG)	MOBIL SHC-629 SYNTHETIC LUBE
	23	ROLL BEARINGS	2	REPACK		•MOBILGREASE HP
	24	RADIATOR COOLANT	1	DRAIN AND REFILL	OR CHANGE YEARLY, WHICH-EVER COMES FIRST	ETHYLENE GLYCOL ANTI-FREEZE & CLEAN WATER
	25	VIBR. SHAFT BEARINGS	1	DRAIN AND REFILL	FILL TO LEVEL PLUG WITH ROLL INDICATOR BAR AT BOTTOM. 6.5 QTS (6.2 LITERS)	•MOBILUBE HD 80W-90
	26	STEERING PUMP STRNR	1	CLEAN		
AS NECESSARY	27	FUEL TANK	1	ADD FUEL	45 GALS. (170 LITERS)	•2 DIESEL FUEL
	28	WATER TANK	2	ADD WATER	135 GALS. (511 LITERS)	USE CLEAN WATER
	29	SPRINKLER PUMPS	2	DRAIN WHEN TEMP. IS AT OR BELOW FREEZING	DO NOT RUN DRY	REMOVE AND CLEAN STRAINER PERIODICALLY

•USE MOBIL OIL PRODUCT OR EQUIVALENT
••WITH WARM OIL

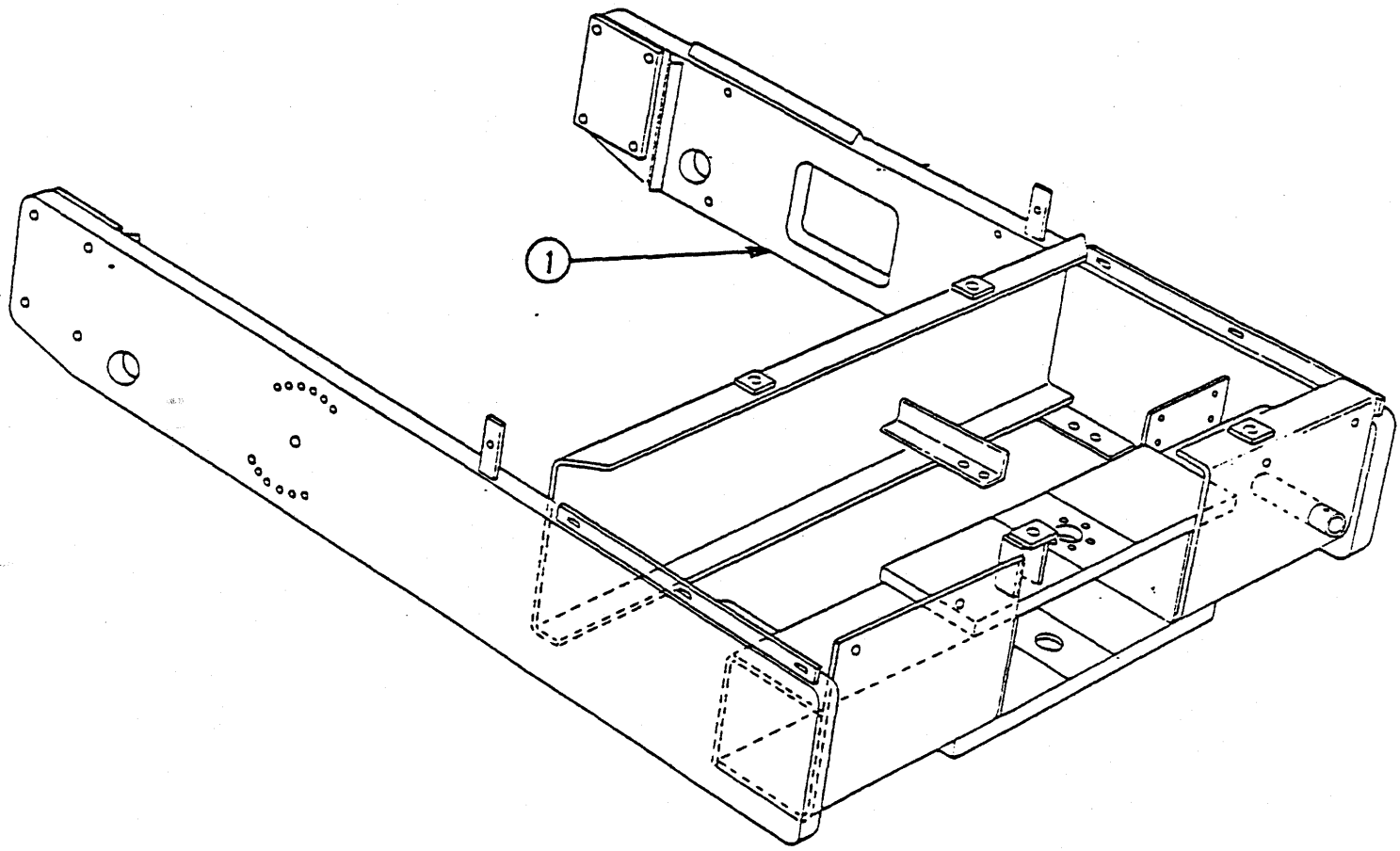
102-50489-01



ENGINE: JOHN DEERE 4239A

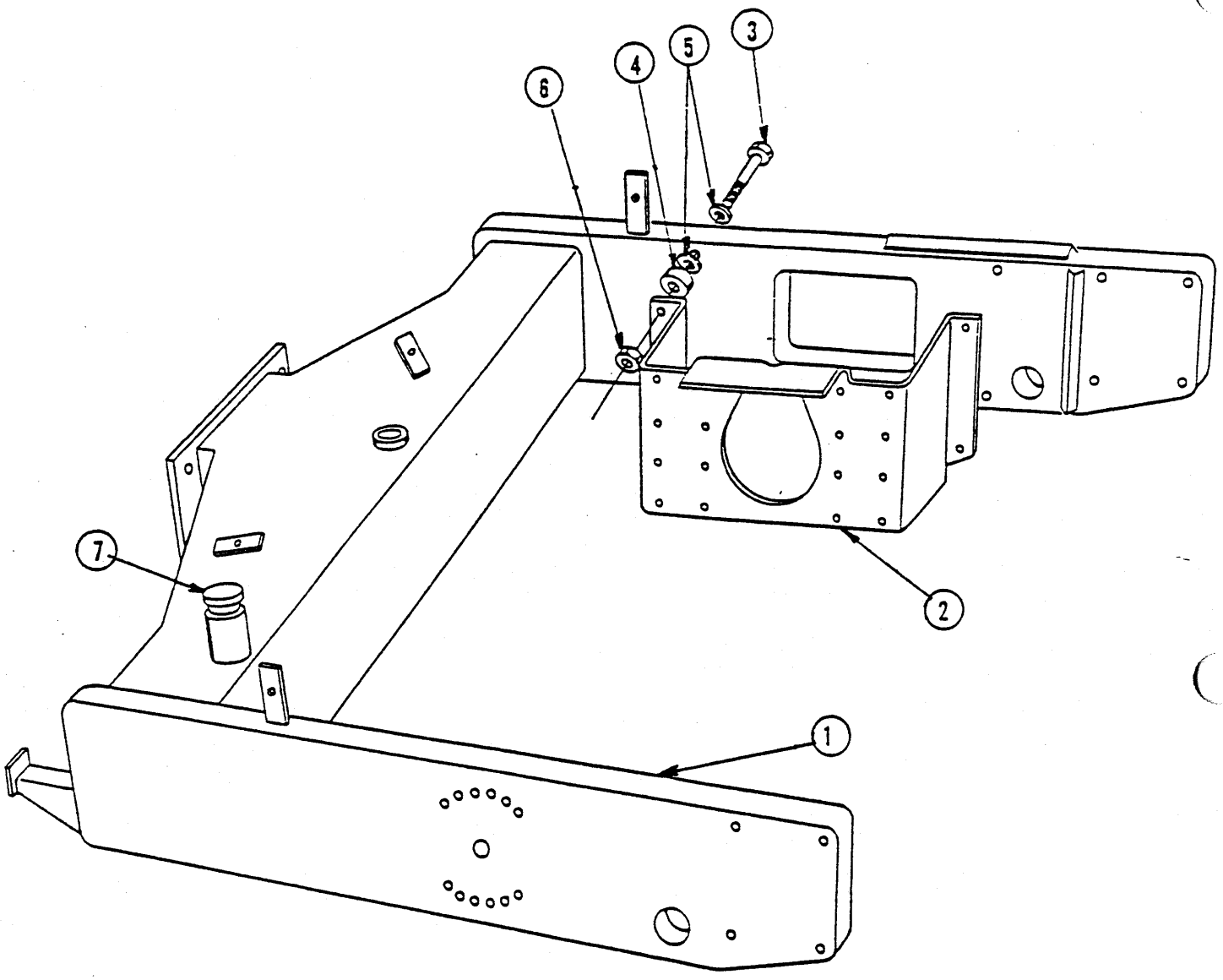
NEGATIVE GROUND ELECTRICAL SYSTEM

MAIN FRAME - FRONT (ENGINE)



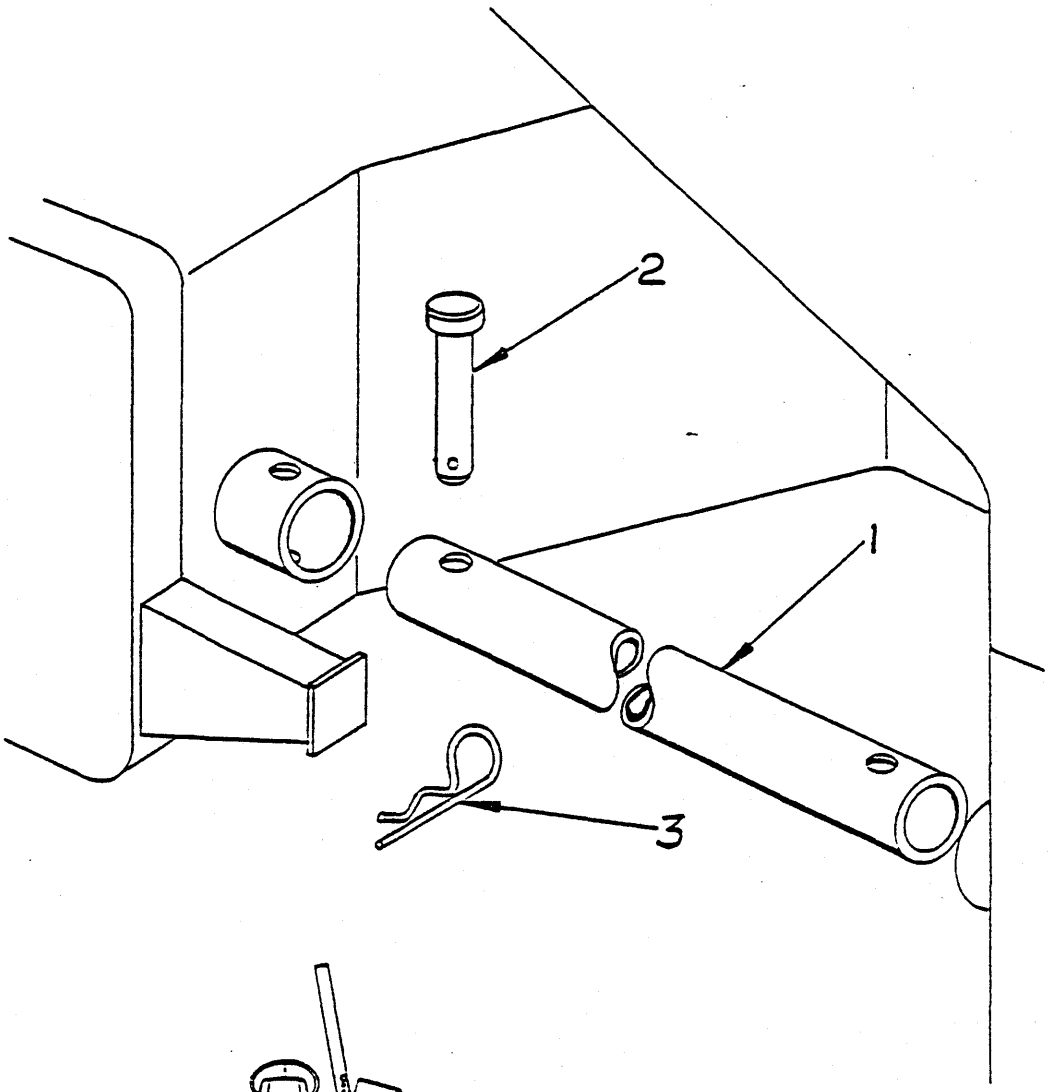
ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-09393-80	1	FRONT MAIN FRAME

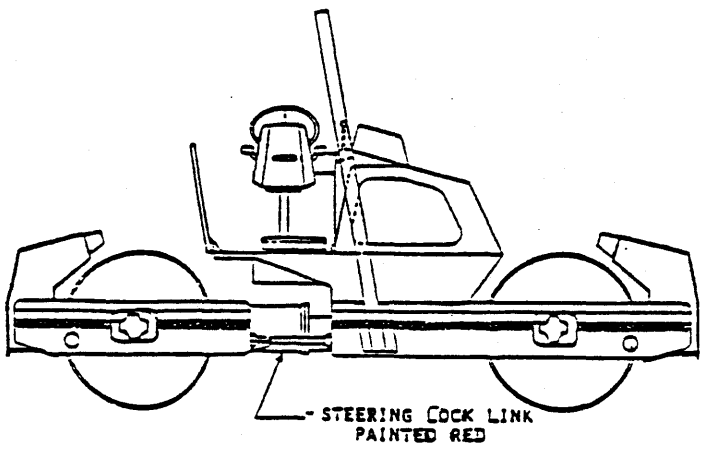
MAIN FRAME - REAR (OPPOSITE) & FUEL TANK



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-09002-80	1	REAR MAIN FRAME
2	102-05476-01	1	FRAME MOUNTING BRACKET
3	298-00240-93	4	3/4" X 4-1/4" CAPSCREW
4	102-11411-01	4	SPACER
5	298-00042-97	8	3/4" HARD WASHER
6	298-02035-71	4	3/4"-10 LOCK NUT
7	298-00175-47	1	FUEL TANK CAP
8	102-30224-02	1	FUEL GAUGE

MAIN FRAME - STEERING LOCK LINK

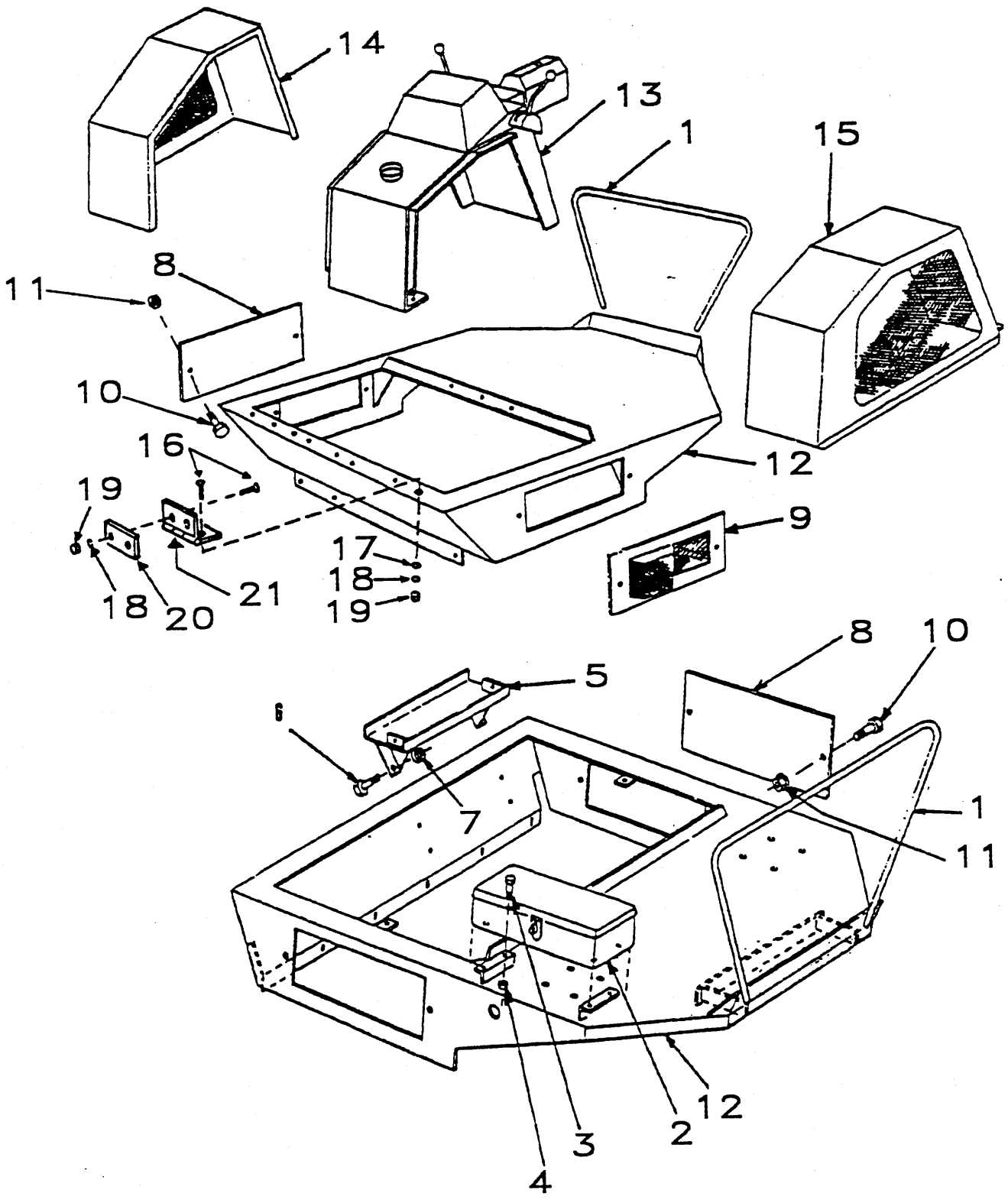




ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-11637-01	1	STEERING LOCK LINK
2	102-11638-01	2	STEERING LOCK LINK PIN
3	298-00131-47	2	HAIRPIN

MAIN FRAME - PLATFORM ASSEMBLY

B0562A

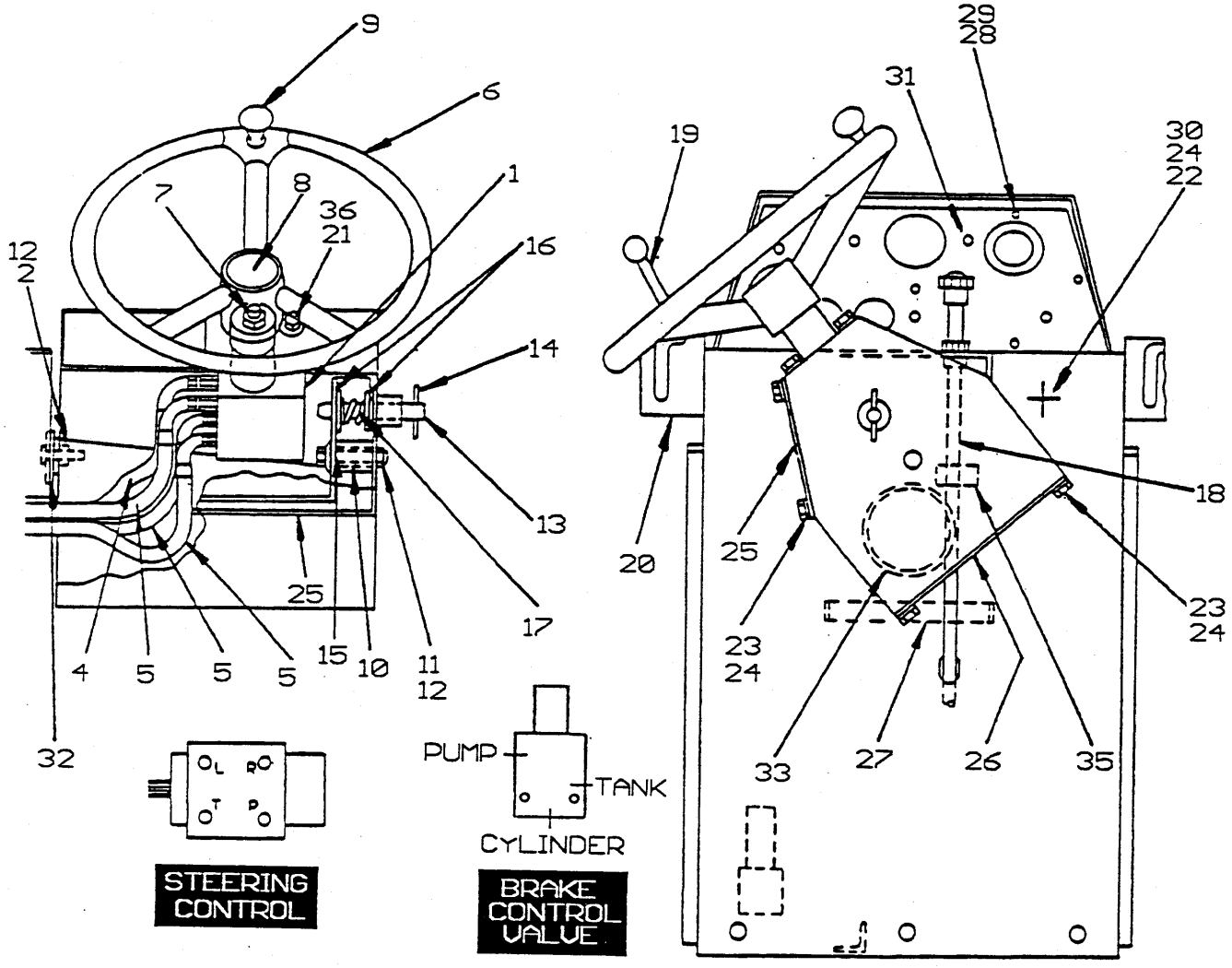


MAIN FRAME - PLATFORM ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-08823-80	1	HANDRAIL
2	102-50049-01	1	TOOL BOX
3	298-00103-93	4	CAPSCREW 3/8" X 3/4"
4	298-02065-71	4	LOCK NUT 3/8"
5	502-08774-80	1	BATTERY TRAY
6	298-00178-93	4	CAPSCREW 1/2" X 1-1/4"
7	298-02063-71	4	LOCK NUT 1/2"-13
8	102-13051-01	1	AIR SCOOP COVER
9	502-30215-80	1	COVER PLATE
10	298-00114-93	4	CAPSCREW 1/2" X 2"
11	298-02063-71	4	LOCK NUT 1/2"-13
12	502-09005-80	1	OPERATOR'S PLATFORM
13	502-09405-80	1	CENTER HOUSING
14	502-09015-80	1	ENGINE HOOD
15	502-09015-81	1	ENGINE HOOD
16	298-00068-93	16	CAP SCREW
17	398-20000-66	16	CUT WASHER
18	398-20000-12	16	LOCK WASHER
19	398-11000-03	16	NUT
20	102-11729-01	4	BACK-UP BAR
21	102-11486-01	4	HINGE

MAIN FRAME - CONTROL CONSOLE ASSEMBLY

B0730

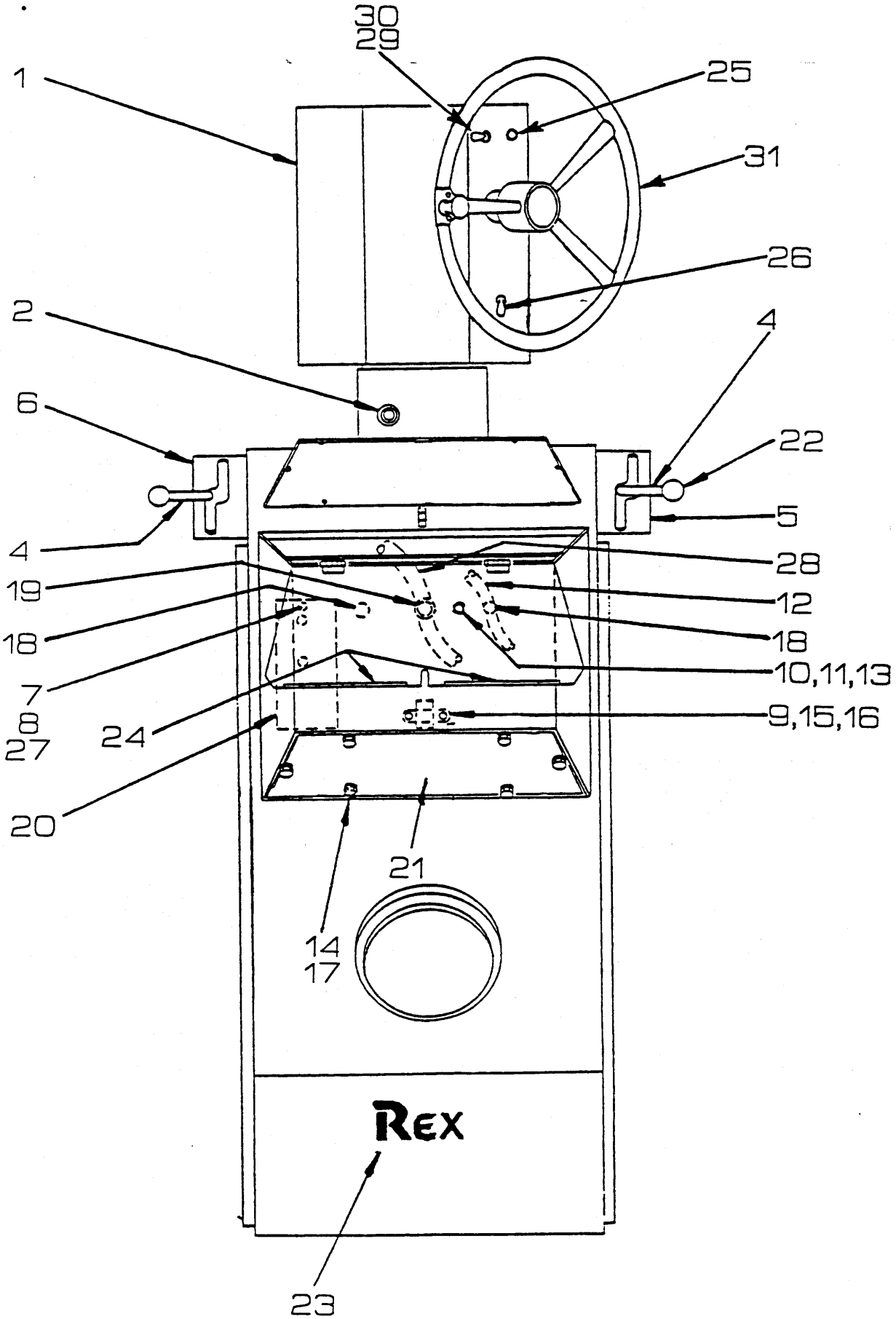


MAIN FRAME - CONTROL CONSOLE ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-09236-01	1	STEERING CONTROL
2	298-00130-93	1	CAPSCREW 3/4" X 2"
3			NOT USED
4	102-03701-19	2	HOSE - 54"
5	102-03701-01	3	HOSE - 75"
6	298-00453-47	1	STEERING WHEEL
7	298-00009-71	1	SPECIAL NUT
8	298-00454-47	1	STEERING WHEEL CAP
9	298-00278-47	1	KNOB
10	102-10288-01	1	STUD
11	298-00036-71	1	CAPNUT 3/4"-10 UNC
12	298-02067-71	2	3/4" FLANGED NUT
13	102-10299-01	1	PIN
14	298-06007-34	1	ROLL PIN 5/16" X 2-1/2"
15	298-06000-34	1	ROLL PIN 5/16" X 1-3/4"
16	298-00042-97	2	HARDENED WASHER - 3/4
17	102-10454-01	1	COMPRESSION SPRING
18	102-31772-01	1	75" THROTTLE CONTROL CABLE
19	502-08795-80	2	CONTROL HANDLE
20	502-04965-80	1	GATE - L.H.
21	398-20000-12	6	LOCKWASHER - 3/8"
22	398-11000-18	1	5/16" HEX NUT
23	298-00101-93	10	CAPSCREW 5/16" UNC X 1"
24	398-20000-64	13	LOCKWASHER - 5/16"
25	102-10672-01	1	STEERING COLUMN COVER
26	102-11259-01	1	STEERING COLUMN COVER
27	102-11609-01	1	HOSE BRACKET
28	398-20000-36	12	LOCKWASHER - 1/4"
29	298-00176-93	10	CAPSCREW - 1/4" X 1-1/4"
30	398-02005-77	1	CAPSCREW 5/16"UNC X 3/4"
31	602-3882	1	INSTRUMENT PANEL ASSEMBLY **SEE PAGE 29 FOR BREAKDOWN**
32	398-20000-10	4	CUT WASHER
33	102-09100-03	1	QUICK EDGE TRIM 10"
36	298-00105-93	6	CAPSCREW 3/8" X 1-1/4"

MAIN FRAME - CONTROL CONSOLE ASSEMBLY

B0724

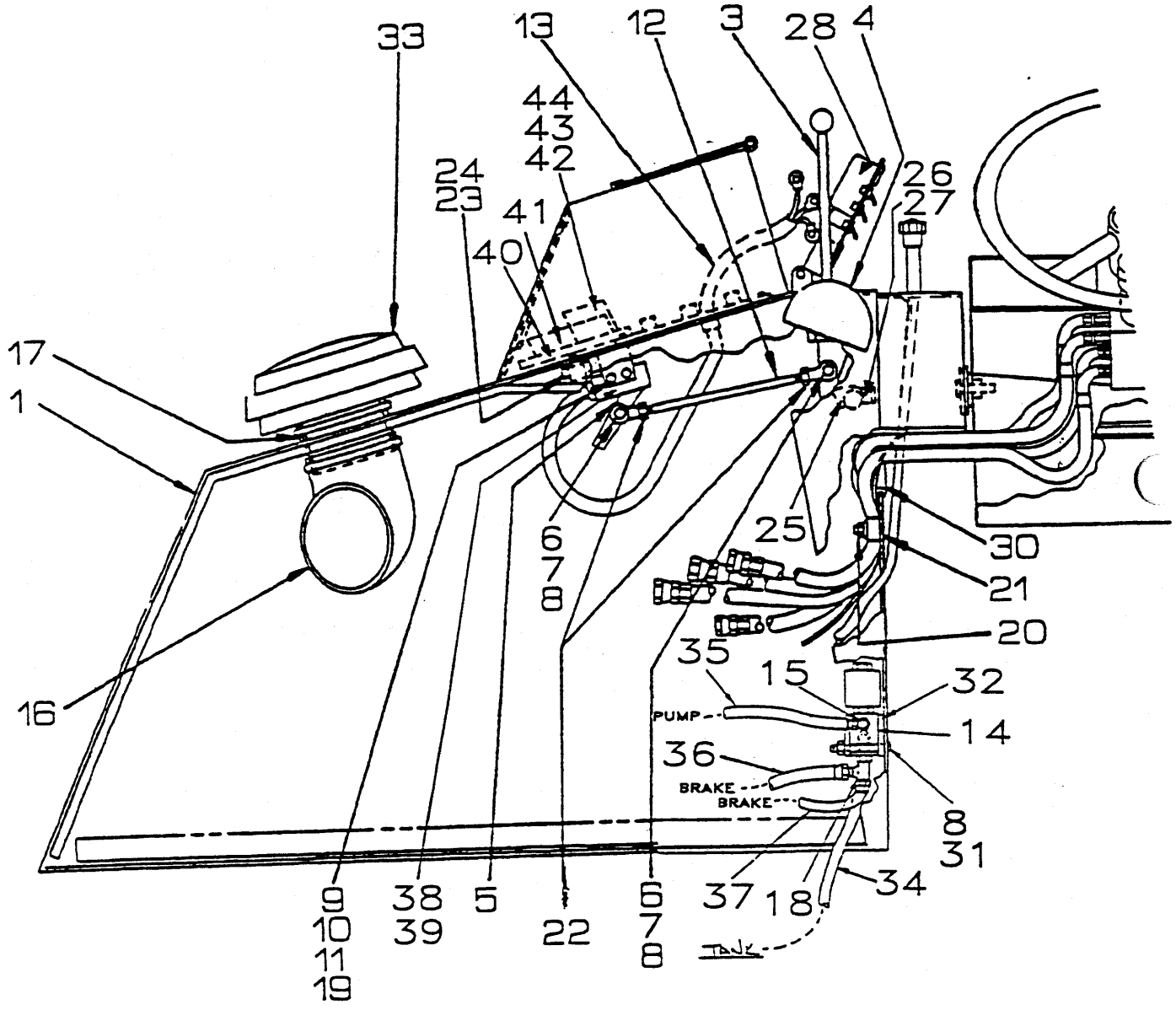


MAIN FRAME - CONTROL CONSOLE ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-20145-80	1	STEERING HOUSING
2	102-31772-01	1	THROTTLE CABLE
4	502-08795-80	2	CONTROL HANDLE
5	502-04965-80	1	GATE - L.H.
6	502-04966-80	1	GATE - R.H.
7	398-11000-03	12	HEX NUT 3/8"-16 UNC
8	398-20000-12	14	LOCKWASHER - 3/8"
9	298-02034-71	14	LOCKNUT 1/4"-20 UNC
10	398-11000-16	4	NUT #10-24
11	398-20000-35	7	LOCKWASHER - 3/16"
12	398-04000-61	1	VIB. SWITCH WIRE HARNESS
13	398-10000-51	1	MACH. SCREW #10-24 X 1"
14	398-20000-36	12	LOCKWASHER - 1/4"
15	298-06543-17	1	STARTER RELAY
16	298-00176-93	10	CAPSCREW - 1/4" X 1-1/4"
17	298-00098-93	18	CAPSCREW 1/4" X 7/8"
18	298-00019-17	2	CORD GRIP - 1/2" NPT
19	298-05525-68	1	RUBBER GROMMET
20	102-11980-01	1	BREAKER MOUNTING PLATE
21	102-31371-01	1	COVER
22	X204135	2	1/2" BALL KNOB
23	102-31762-01	2	REX DECAL
24	102-09100-04	2	QUICK EDGE TRIM 7"
25	298-06067-17	1	HORN BUTTON KIT
26	298-06561-17	1	TOGGLE SWITCH
27	398-02001-79	2	CAPSCREW 3/8" X 1-1/4"
28	602-20260-01	1	MAIN WIRE HARNESS
29	298-06530-17	1	SWITCH(MANUAL OVERRIDE)
30	298-00052-17	1	SEAL FOR TOGGLE SWITCH
31	298-00453-47	1	STEERING WHEEL

MAIN FRAME - CONTROL CONSOLE ASSEMBLY

B0142AA

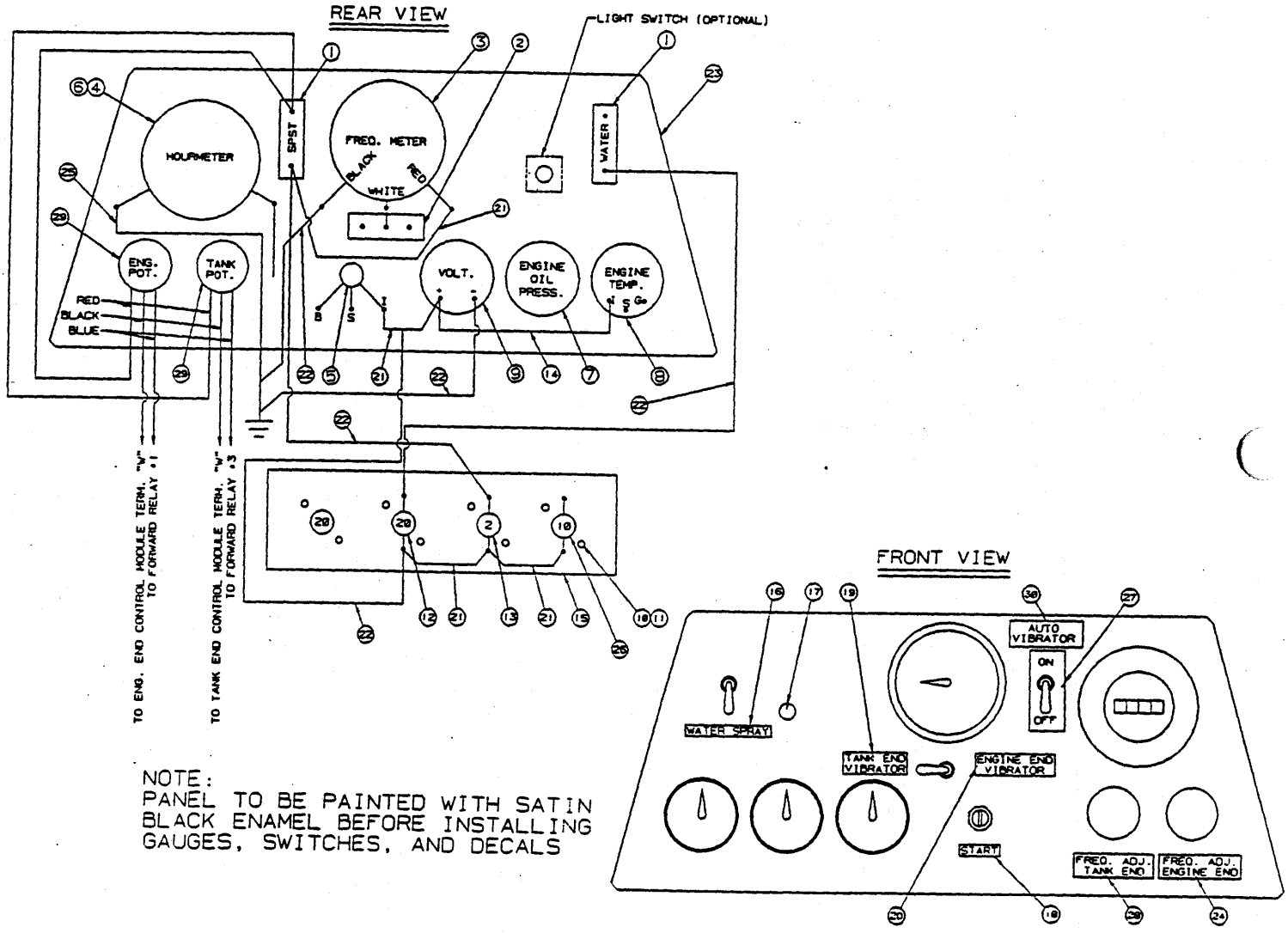


MAIN FRAME - CONTROL CONSOLE ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-09405-80	1	CENTER HOUSING
3	502-08795-80	2	CONTROL HANDLE
4	502-04965-80	1	GATE - L.H.
5	102-12759-01	1	ARM
6	298-00406-02	3	ROD END - 1/4"
7	298-00075-93	4	CAPSCREW 1/4"-20 X 1-1/2"
8	298-02034-71	14	LOCKNUT 1/4"-20 UNC
9	398-02077-55	2	MACH. SCREW #10-24X1-1/2"
10	398-11000-16	4	NUT #10-24
11	398-20000-35	7	LOCKWASHER - 3/16"
12	102-09913-04	1	CONTROL ROD 6-1/2"
13	398-04000-61	2.2FT	VIB. SWITCH WIRE HARNESS
14	102-11971-01	1	VALVE CONTROL
15	298-06572-86	1	7/16"JIC X 9/16" O-RING,90°
16	298-05310-92	1	RUBBER ELBOW
17	298-09071-86	1	HOSE CLAMP
18	298-06573-86	1	TEE
19	398-20000-21	2	3/16 CUT WASHER
20	298-02063-71	1	FLANGE NUT - 1/2"
21	102-11609-01	1	HOSE BRACKET
22	398-11004-01	3	1/4 UNF JAM NUT
23	298-06543-17	1	STARTER RELAY
24	298-00176-93	10	CAPSCREW - 1/4" X 1-1/4"
25	102-09149-02	1	HORN
26	102-09149-04	1	HORN BRACKET
27	102-10982-01	1	HORN NUT
28	602-3882	1	INSTRUMENT PANEL ASSEMBLY
30	102-09100-03	1	QUICK EDGE TRIM 10"
31	298-00100-93	2	CAPSCREW 1/4"-20 X 2-1/4"
32	102-11973-01	2	VALVE MOUNTING PLATE
33	298-05303-92	1	AIR INLET HOOD
34	502-01341-86	1	HOSE - 3' 6"
35	102-31248-05	1	HOSE - 3'
36	102-31248-09	1	HOSE - 9'
37	102-31248-02	1	HOSE - 10'
38	298-06568-17	1	LIMIT SWITCH
39	298-00048-17	1	CORD GRIP
40	102-31917-01	1	MOUNTING PLATE
41	102-31712-01	2	CIRCUIT BOARD
42	298-15083-17	2	RELAY
43	298-00295-17	2	RELAY SOCKET
44	298-13295-17	2	RELAY CLIP

MAIN FRAME - INSTRUMENT PANEL ASSEMBLY

B3882

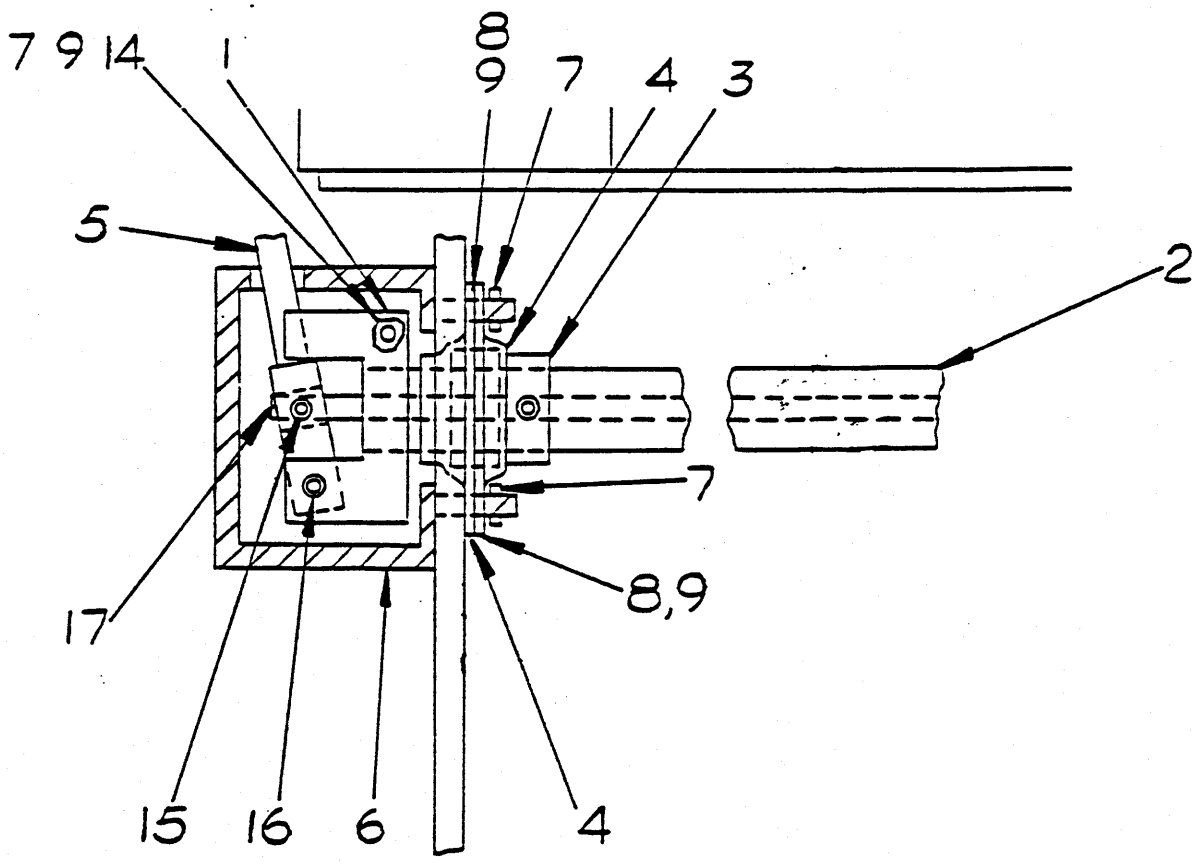


NOTE:
PANEL TO BE PAINTED WITH SATIN BLACK ENAMEL BEFORE INSTALLING GAUGES, SWITCHES, AND DECALS

MAIN FRAME - INSTRUMENT PANEL ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-06139-17	2	TOGGLE SPST SEALED
2	298-06535-17	1	TOGGLE SWITCH SPDT
3	602-03795-01	1	FREQUENCY METER
4	298-03002-17	1	HOUR METER 12V
5	212-00276-17	1	KEYSWITCH
6	298-03016-17	1	MOUNTING - HOUR METER
7	212-02117-56	1	OIL PRESSURE GAUGE
8	212-02118-56	1	TEMP GAUGE 100-280
9	212-02116-56	1	VOLT METER
10	398-10002-24	8	8-32 X 7/8 MACH SCREW
11	398-20001-43	8	NUMBER 8 CUT WASHER
12	298-05005-17	1	CIRCUIT BREAKER 20 AMP
13	298-05004-17	1	CIRCUIT BREAKER 2 A
14	502-08794-80	1	WIRE ASSEMBLY (7")
15	102-11980-01	1	BREAKER MTG PLT.
16	102-11005-01	1	WATER SPRAY LABEL
17	298-00141-17	1	PLUG BUTTON 1/2
18	102-10090-01	1	START LABEL
19	102-13122-01	1	TANK VIB LABEL
20	102-13121-01	1	ENGINE VIB LABEL
21	502-08794-82	4	WIRE ASSEMBLY (4")
22	502-08794-81	5	WIRE ASSEMBLY (30")
23	102-31804-01	1	INSTRUMENT PANEL
24	102-13125-01	1	FREQ ADJ ENGINE END LABEL
25	298-26004-17	1	#10 RING TONGUE
26	212-06000-17	1	CIRCUIT BREAKER
27	102-13123-01	1	ON/OFF LABEL
28	102-13124-01	1	FREQ ADJ TANK END LABEL
29	502-30285-80	2	POTENTIOMETER ASSY
30	102-11145-01	1	VIBRATOR LABEL

MAIN FRAME - TRAVEL CONTROL ASSEMBLY

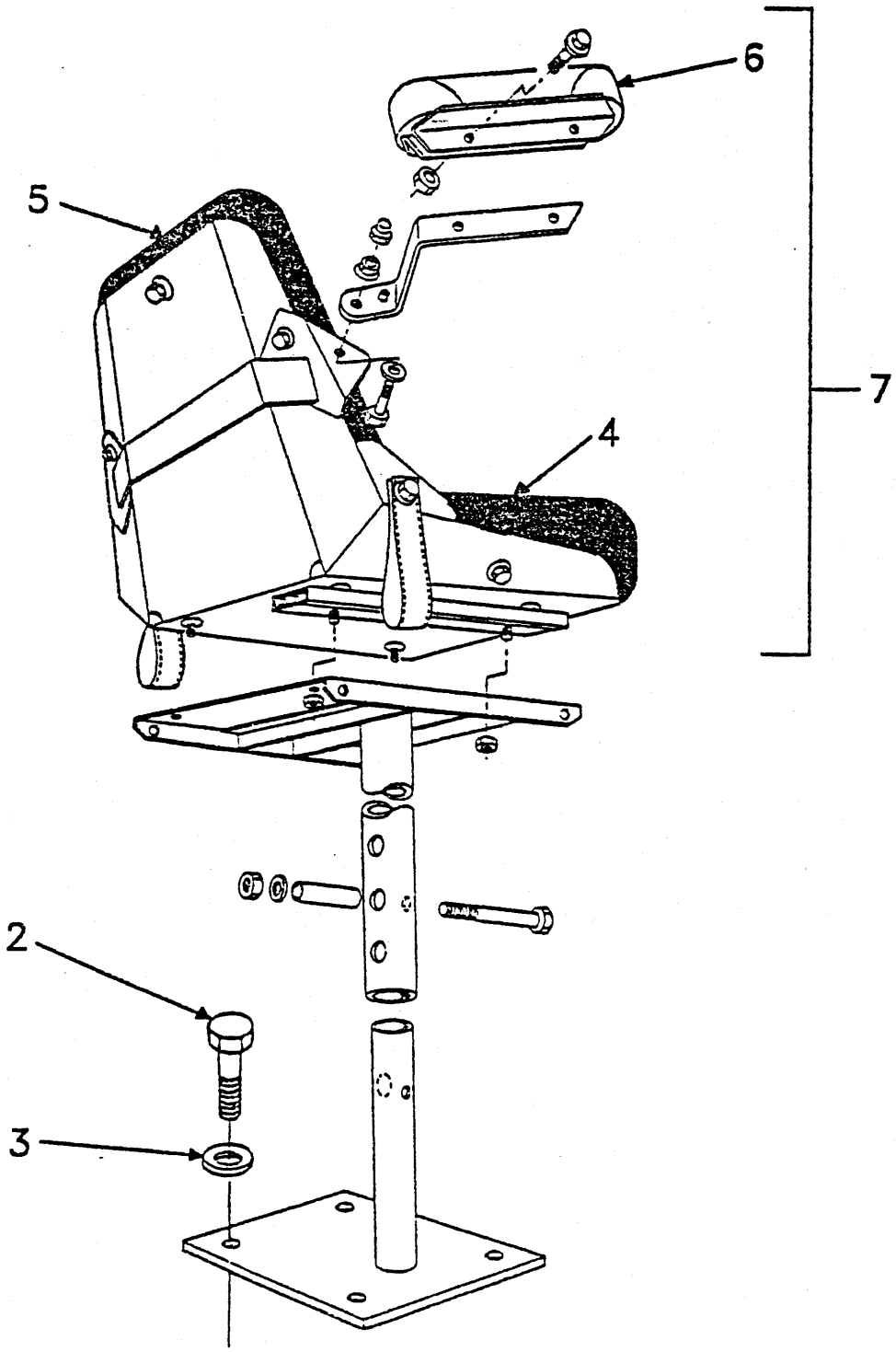


MAIN FRAME - TRAVEL CONTROL ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-30434-01	2	BLOCK - SHIFT COLLAR
2	502-09055-80	1	CONTROL SHAFT
3	298-00314-02	2	BEARING
4	298-00315-02	4	FLANGE
5	502-08795-80	2	CONTROL HANDLE
6	502-04965-80	1	GATE - L.H.
7	398-11000-03	11	HEX NUT 3/8"-16 UNC
8	398-20000-66	7	WASHER - 3/8"
9	398-20000-12	13	LOCKWASHER - 3/8"
14	398-02005-50	2	CAPSCREW 3/8"-16 X 2-1/2"
15	298-06029-34	2	ROLL PIN 3/16" X 1-1/4"
16	298-06035-34	2	ROLL PIN 3/8" X 2"
17	102-09754-02	1	CROSS SHAFT - 26"

MAIN FRAME - SEAT MOUNTINGS

B0622

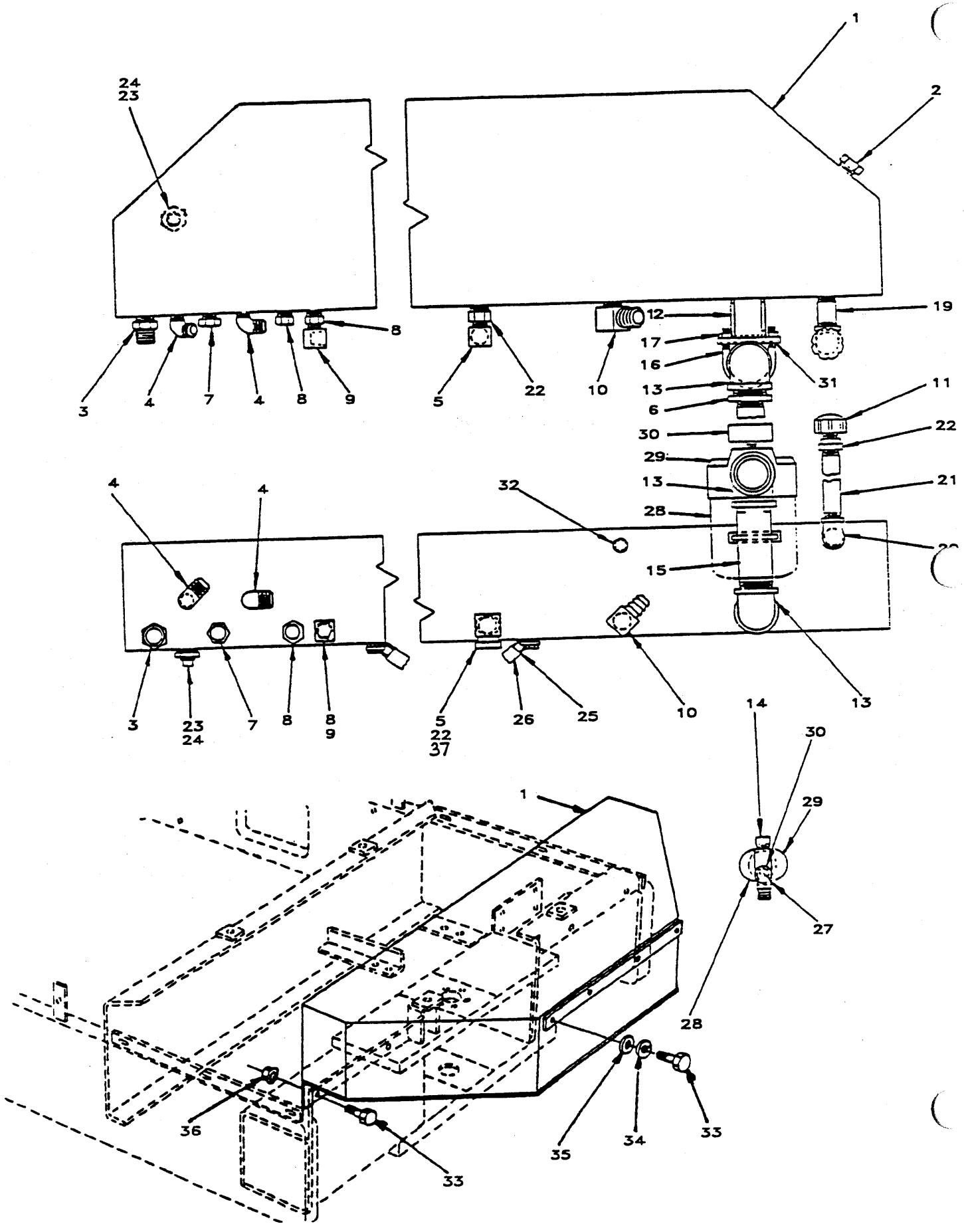


MAIN FRAME - SEAT MOUNTINGS

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-09282-01	2	SEAT ASSEMBLY (W/PEDESTAL)
2	398-02002-19	8	1/2" X 1-1/4" C.S.
3	398-20000-39	8	1/2" LOCK WASHER
4	102-09282-11	2	SEAT CUSHION
5	102-09282-12	2	SEAT BACK
6	102-09282-13	4	ARM RESTS (RH & LH)
7	102-09282-14	2	SEAT (ONLY)
8	102-12958-01	2	HANDLE

MAIN FRAME - HYDRAULIC TANK ASSEMBLY

B0725A

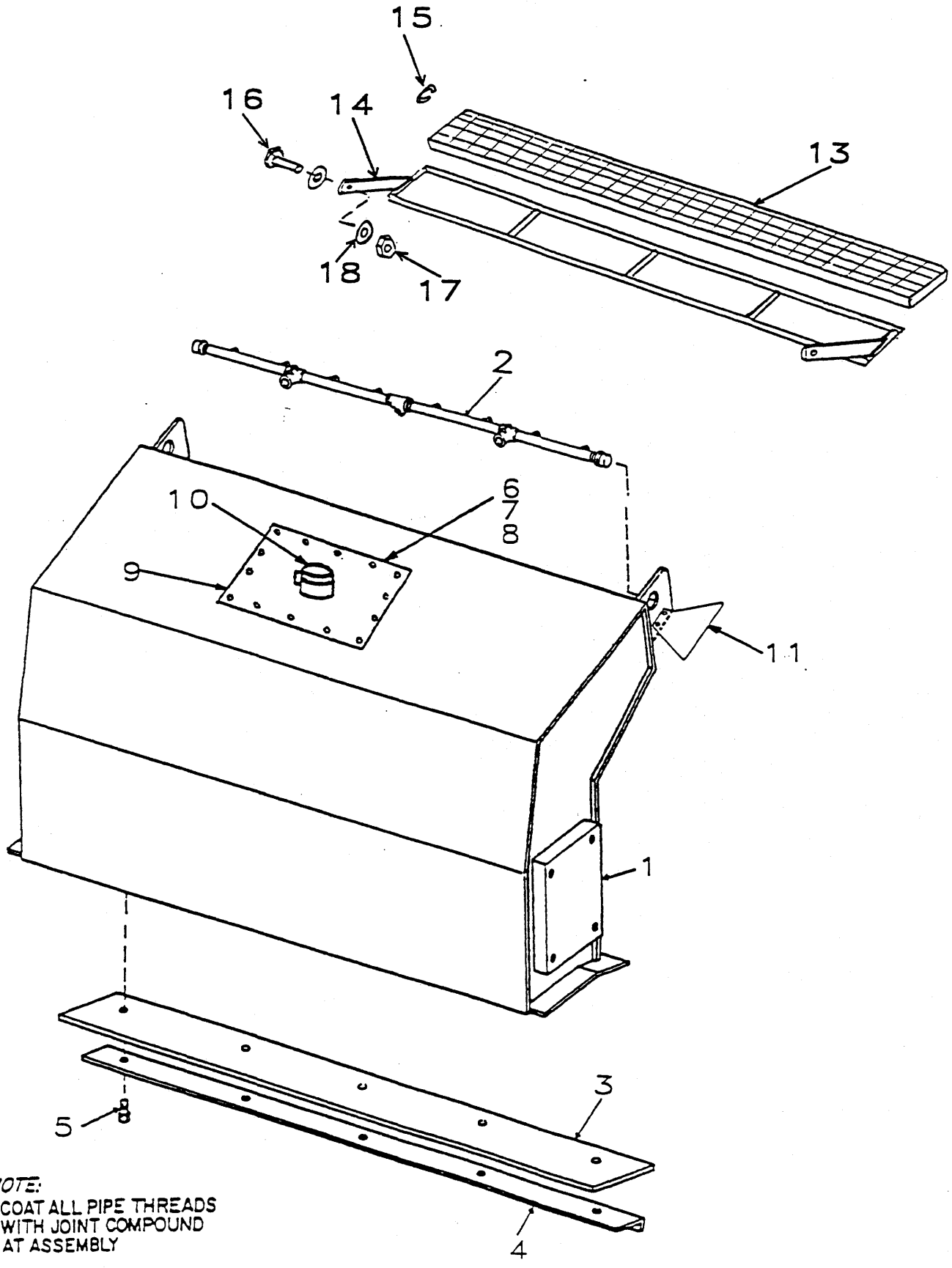


MAIN FRAME - HYDRAULIC TANK ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-09006-80	1	HYDRAULIC TANK
2	298-02108-56	1	SIGHT PLUG
3	298-08196-86	1	REUSABLE FITTING - 1"
4	298-06576-86	2	PIPE/JIC 90° ADT.
5	298-06525-86	1	3/4 X 45° ELBOW
6	398-14011-80	1	REDUCING BUSHING 2 X 1-1/4
7	298-14503-86	1	3/4 X 1/4 RED. BUSHING
8	X7896	2	1/2 X 1/4 RED. BUSHING
9	298-06508-86	1	1/4 X 90° STR. ELBOW
10	298-08210-86	1	PIPE ADAPTER TO HOSE
11	298-00196-53	1	HYDRAULIC RESERVOIR CAP
12	398-14011-59	1	2 X 5 PIPE NIPPLE
13	398-14001-19	2	2" X 90° ELBOW
14	398-14006-77	1	1-1/4 CLOSE PIPE NIPPLE
15	398-14011-76	1	2" X 19" NIPPLE GALV TBE
16	298-01003-04	1	U-BOLT
17	298-02065-71	2	3/8-16 FLGD LOCKNUT
18	398-14009-91	1	1 X 3/4 REDUCING COUPLING
19	398-14003-32	1	1 X 4-1/2 NIPPLE TBE
20	298-06510-86	1	ELBOW 1" DRY SEAL
21	398-99005-84	1	1 X 7-1/2 PIPE NIPPLE TBE
22	398-14009-91	1	1 X 3/4 REDUCING BUSHING
23	398-14010-47	1	1-1/2 X 1 REDUCING BUSHING
24	298-13010-86	1	1" MAG. PIPE PLUG
25	398-99006-90	2.2	2 TWIST LINK COIL CHAIN
26	2556-10	2	HOSE 5/8
27	298-06602-86	1	PIPE HOSE END 1-1/4
28	298-00191-53	1	HYDR. FILTER ELEMENT
29	102-11823-01	1	HYDR. FILTER HEAD
30	298-02140-56	1	GAUGE - VACUUM
31	102-11670-01	4	SHIM (USE AS NEEDED)
32	398-14007-09	1	1/2" PIPE PLUG
33	298-00114-93	8	1/2" X 2" C.S.
34	398-20000-39	4	1/2" LOCK WASHER
35	298-00039-97	4	1/2" HARDENED WASHER
36	298-02063-71	4	1/2" LOCK NUT
37	102-11970-01	1	STRAINER

MAIN FRAME - SPRINKLER TANK ASSEMBLY

B0731/B0731A

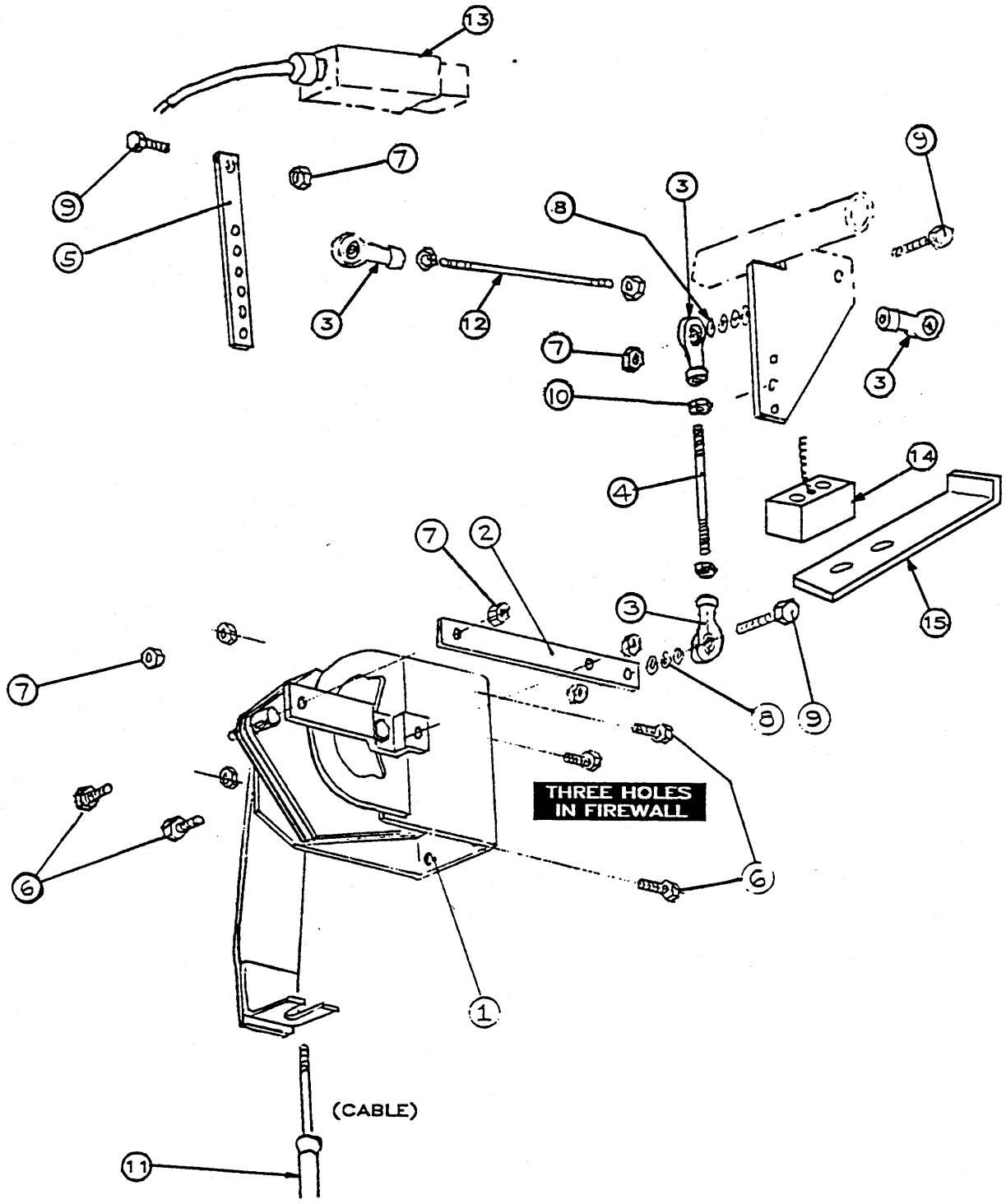


MAIN FRAME - SPRINKLER TANK ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-06999-80	1	SPRINKLER TANK
2	102-11484-01	2	SPRAY BAR - 1000
3	102-31267-01	1	ROLL SCRAPER
4	102-31269-01	1	BACK-UP BAR
5	298-00115-93	5	CAPSCREW 1/2"-13 X 1-3/4"
6	502-20910-80	1	FLANGE FILLER
7	298-00103-93	14	3/8" X 3/4" C.S.
8	398-20000-66	14	3/8" WASHER
9	102-31810-01	1	GASKET
10	212-00531-47	1	CGAP
11	102-12247-01	1	WINDSCREEN RH
12	102-12247-02	1	WINDSCREEN LH
	OPTIONAL COCOA MATS (PER DRUM)		
13	102-12598-01	1	COCOA MAT
14	502-08867-80	1	FRAME
15	298-00123-47	12	RING
16	298-00114-93	2	CAPSCREW
17	298-02063-71	2	NUT
18	298-00039-97	4	WASHER

MAIN FRAME - NON-LINEAR CONTROL KIT

B1700

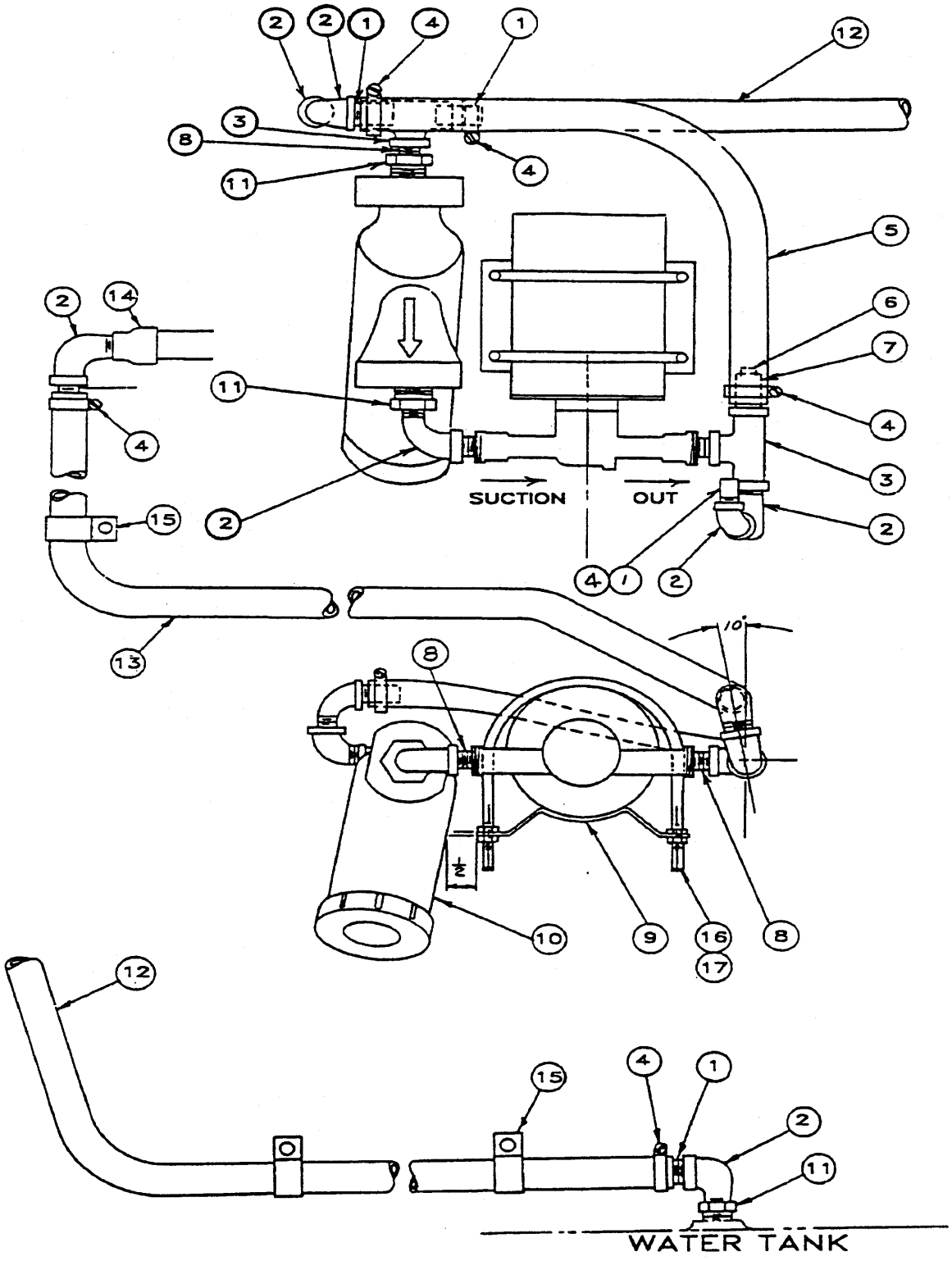


MAIN FRAME - NON-LINEAR CONTROL KIT

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-12759-01	1	NON-LINEAR CONTROL
2	102-12757-01	1	CONTROL LEVER
3	298-00406-02	4	BALL JOINT
4	102-12758-01	1	ROD
5	102-12756-01	1	LIMIT SWITCH ARM
6	298-00098-93	5	CAPSCREW
7	298-02034-71	8	LOCKNUT
8	398-20000-36	7	LOCK WASHER
9	298-00075-93	3	CAPSCREW
10	398-11000-37	4	NUT
11	102-11605-01	1	CABLE
12	102-09913-04	1	ROD SWITCH
13	298-06568-17	1	LIMIT SWITCH
14	298-06565-17	1	ALARM SWITCH
15	102-12319-01	1	BRACKET SWITCH

MAIN FRAME - WATER PUMP ASSEMBLY-ENGINE END

B3807

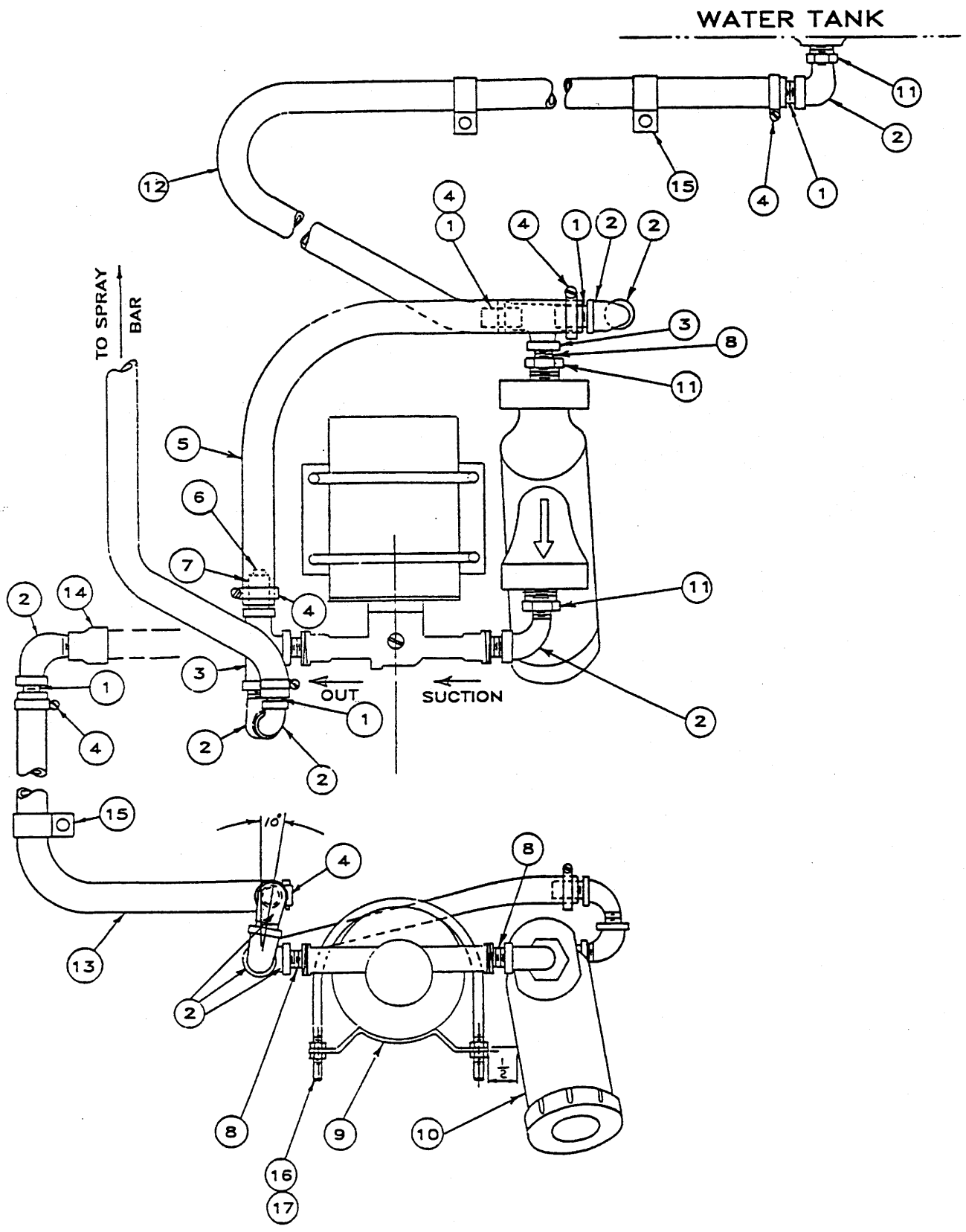


MAIN FRAME - WATER PUMP ASSEMBLY-ENGINE END

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	398-14006-87	5	3/8" PIPE NIPPLE
2	398-14001-34	7	3/8" X 90DEG ST. EL.
3	398-14005-22	2	3/8" GALV. TEE
4	298-09018-86	6	CLAMP, BAND
5	398-99011-15	12-1/2"	HOSE
6	102-11937-01	1	ORIFICE PLUG
7	102-11938-01	1	ORIFICE HOLDER
8	398-14002-28	3	3/8" CLOSE NIPPLE
9	102-06440-01	1	WATER PUMP
10	102-30212-01	1	STRAINER
11	398-99006-31	2	RED. BUSH. 3/4
12	398-99011-15	4'4"	HOSE 5/8" I.D.
13	398-99011-15	3'4"	HOSE 5/8" I.D.
14	398-14009-46	1	PIPE, REDUCER
15	298-09048-86	4	CLAMP, HOSE
16	102-08899-01	2	U-BOLT
17	398-11003-47	8	NUT 1/4"

MAIN FRAME - WATER PUMP ASSEMBLY-TANK END

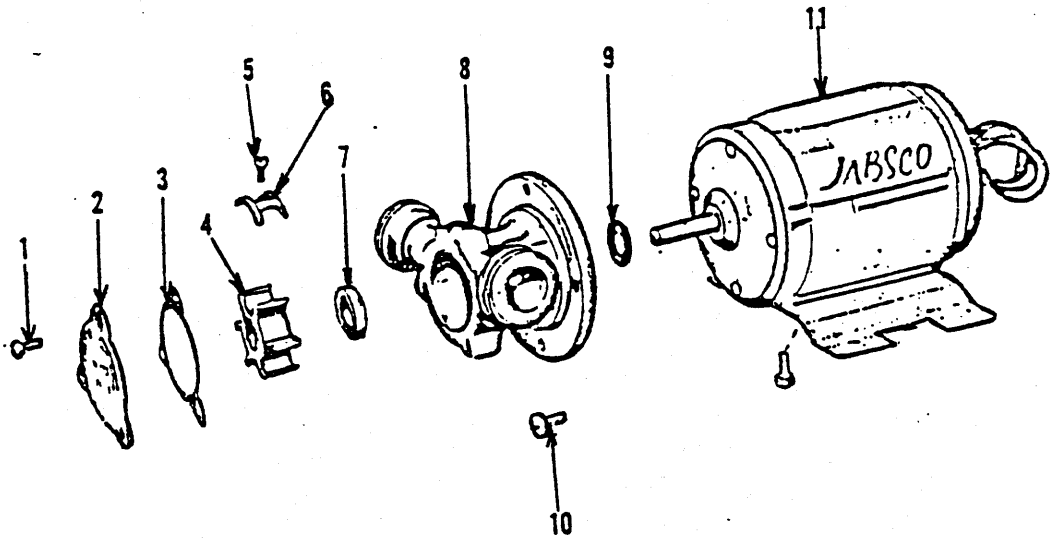
B3808

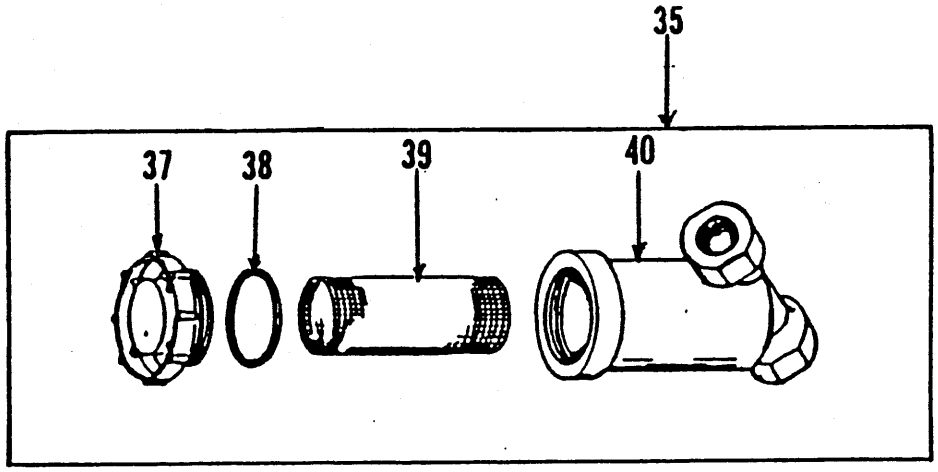


MAIN FRAME - WATER PUMP ASSEMBLY-TANK END

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	398-14006-87	5	3/8" PIPE NIPPLE
2	398-14001-34	7	3/8" X 90DEG ST. EL.
3	398-14005-22	2	3/8" GALV. TEE
4	298-09018-86	6	CLAMP, BAND
5	398-99011-15	12-1/2"	HOSE
6	102-11937-01	1	ORIFICE PLUG
7	102-11938-01	1	ORIFICE HOLDER
8	398-14002-28	3	3/8" CLOSE NIPPLE
9	102-06440-01	1	WATER PUMP
10	102-30212-01	1	STRAINER
11	398-99006-31	2	RED. BUSH. 3/4
12	398-99011-15	4'4"	HOSE 5/8" I.D.
13	398-99011-15	3'4"	HOSE 5/8" I.D.
14	398-14009-46	1	PIPE, REDUCER
15	298-09048-86	4	CLAMP, HOSE
16	102-08899-01	2	U-BOLT
17	398-11003-47	8	NUT 1/4"

MAIN FRAME - WATER PUMP AND STRAINER



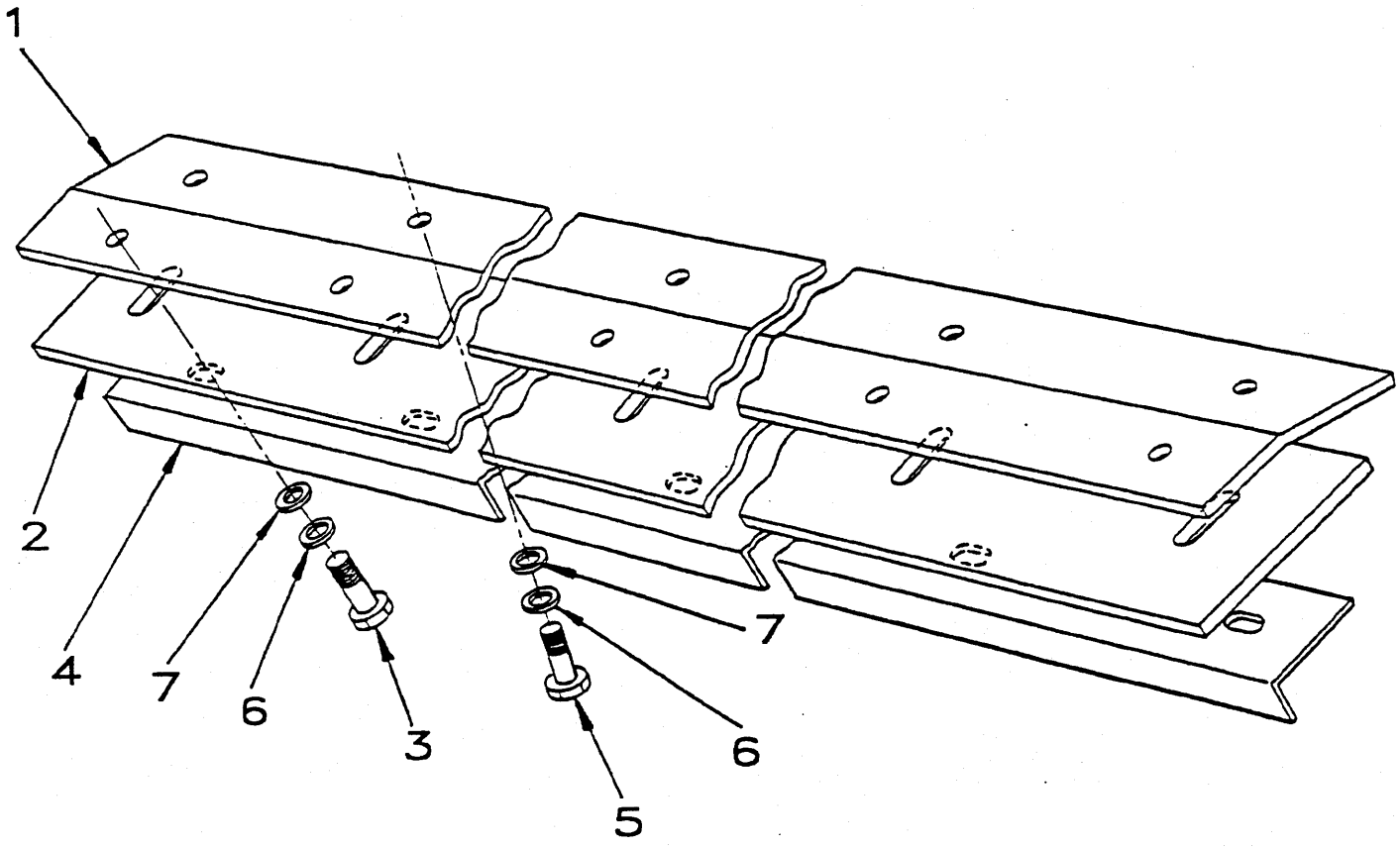


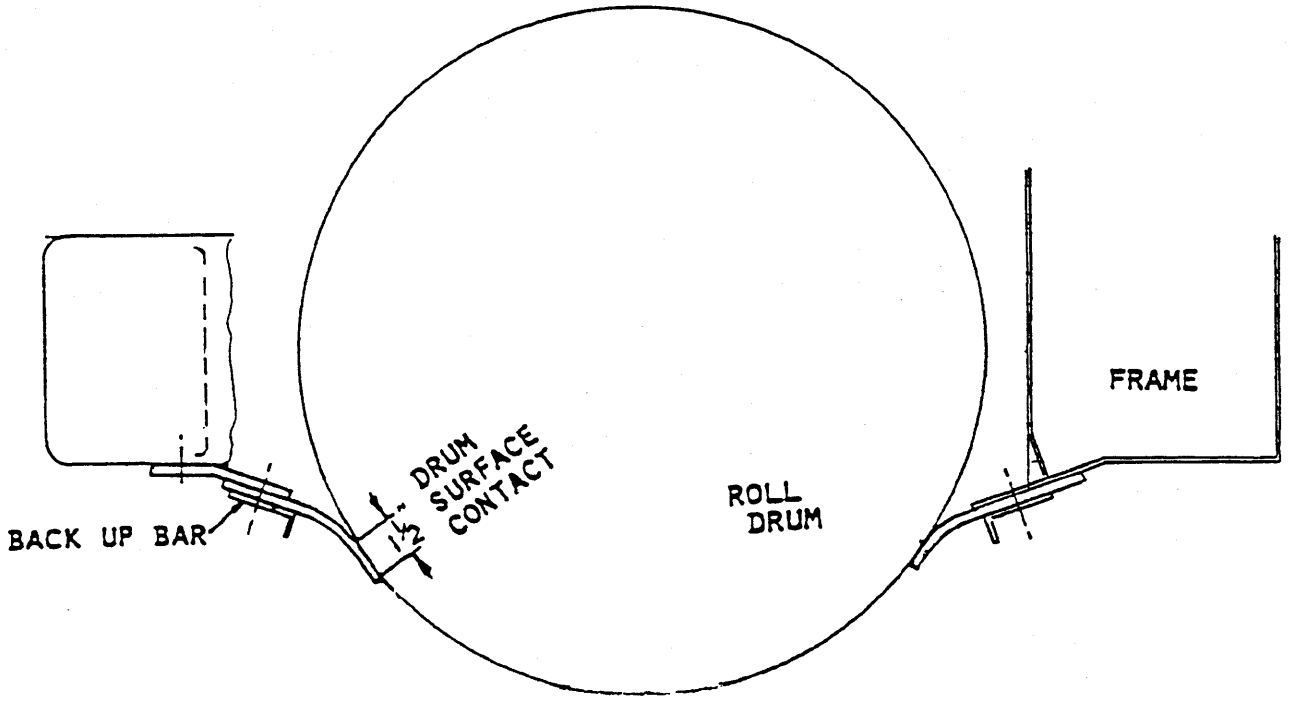
MAIN FRAME - WATER PUMP AND STRAINER

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
	102-06440-01	2	WATER PUMP - INCLUDES ITEMS 1 THRU 11
1	102-06440-11	3	SCREW
2	102-06440-12	1	END COVER
3	102-06440-13	1	GASKET
4	102-06440-14	1	IMPELLER
5	102-06440-15	1	SCREW, CAM
6	102-06440-16	1	CAM
7	102-06440-17	1	SEAL
8	102-06440-18	1	BODY
9	102-06440-19	1	SLINGER
10	102-06440-20	2	SCREW
11	102-06440-21	1	MOTOR
12	102-06440-22	1	SERVICE KIT-INCLUDES ITEMS 1, 3, 4, & 7
35	102-30212-01	2	WATER LINE STRAINER ASSY. INCLUDES ITEMS 37 THRU 40.
37	102-30212-10	1	CAP
38	102-30212-11	1	O-RING
39	102-30212-13	1	SCREEN 80 MESH
40	102-30212-14	1	BODY

DRUM SCRAPER ASSEMBLIES

B0739



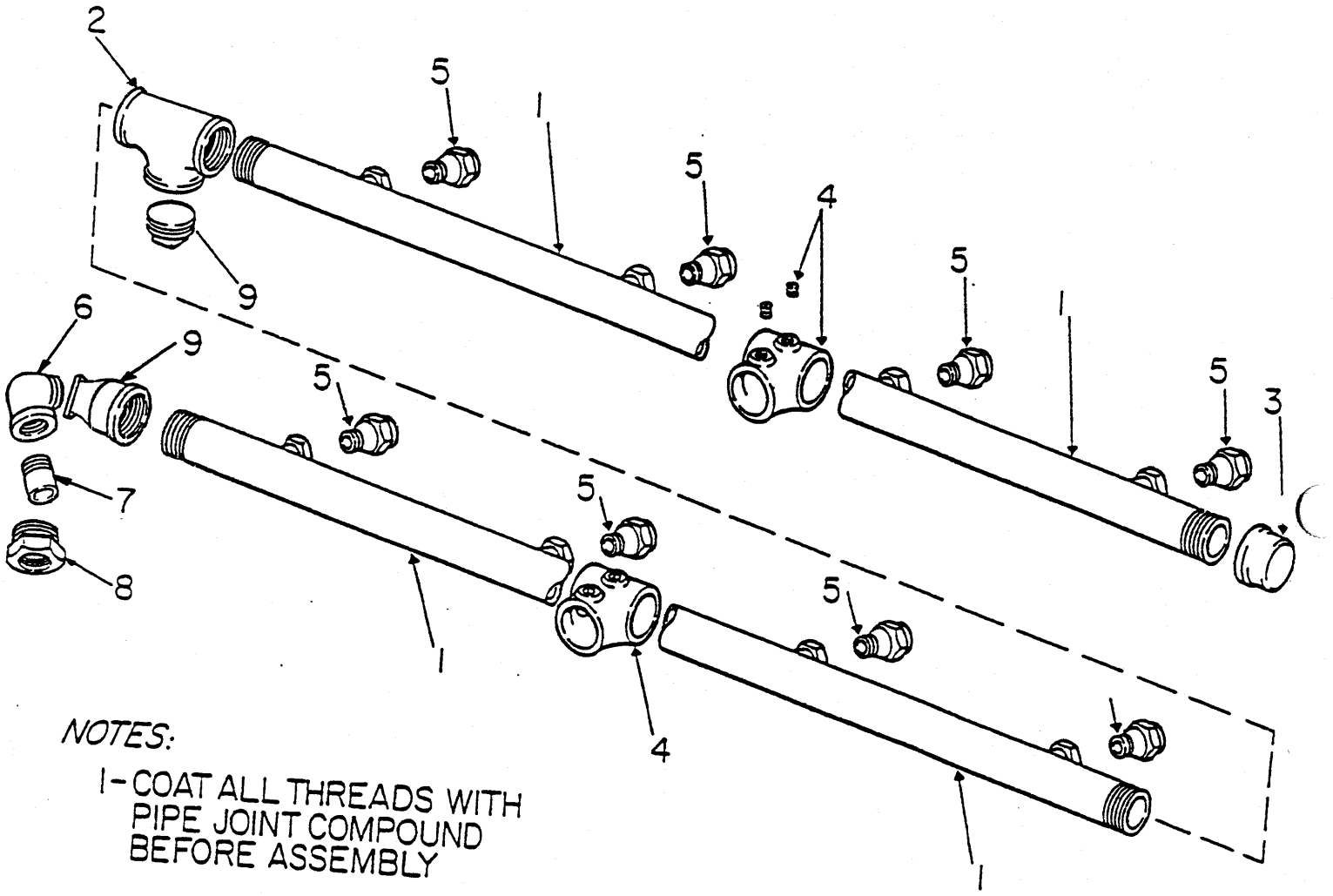


DRUM SCRAPER ASSEMBLIES

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-31268-01	1	SCRAPER MTG BAR - 1000
2	102-31267-01	1	ROLL SCRAPER - 1000
3	398-02002-28	5	1/2" X 2" HEX HD HT CAPSCREW
4	102-31269-01	1	SCRAPER BACK-UP BAR
5	398-02002-19	5	1/2" X 1-1/4" CAPSCREW HT
6	298-00039-97	10	1/2" HARDENED WASHER
7	398-20000-39	10	1/2" LOCK WASHER

MAIN FRAME - SPRAY BAR ASSEMBLIES

B0732



NOTES:

1- COAT ALL THREADS WITH PIPE JOINT COMPOUND BEFORE ASSEMBLY

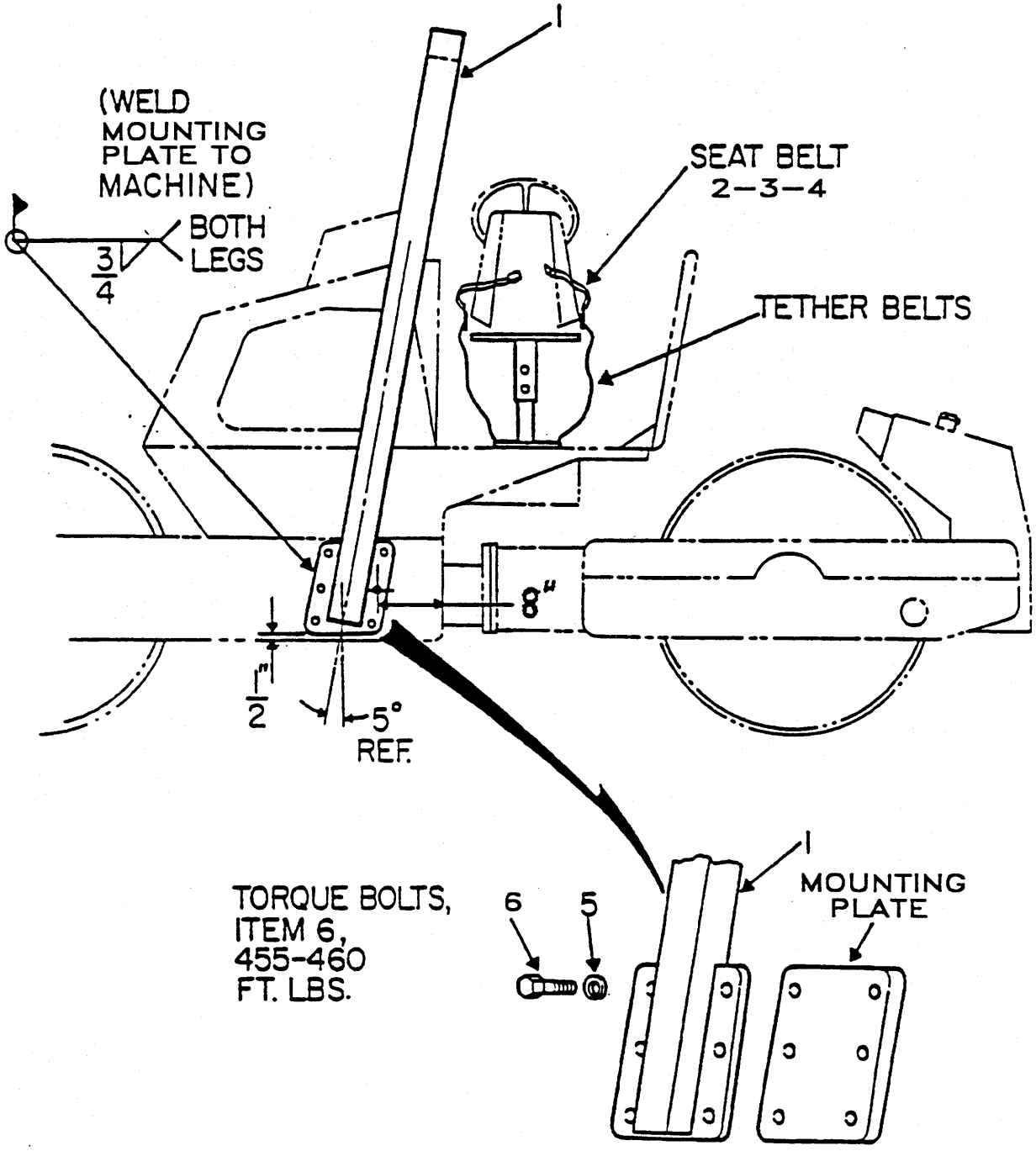
2- SOCKET, ITEM 4, TO BE LOOSE ON PIPE

MAIN FRAME - SPRAY BAR ASSEMBLIES

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-11484-01	2	SPRAY BAR - 1000
2	398-14010-95	1	3/4" X 3/4" X 1/2" PIPE TEE
3	398-14000-90	2	PIPE CAP GALV 3/4"
4	298-19030-86	2	SOCKET TEE 3/4" X 3/4"
5	102-06438-01	8	SPRAY NOZZLE **(CONSISTING OF ITEMS 5A THRU 5D)**
5A	102-06438-02	1	11/16" HEX BODY
5B	102-06438-03	1	13/16" HEX CAP
5C	102-06438-04	1	STRAINER ASSY
5D	102-06438-05	1	ORIFICE TIP
6	398-14001-38	1	1/2" X 90° STREET ELBOW GALV
7	398-14000-14	1	1/2" X 3/8" RED. BUSH-GALV
8	398-14006-87	1	3/8" X 1-1/2" GALV PIPE NIPPLE
9	398-14009-46	1	PIPE REDUCER COUPLING

MAIN FRAME - ROPS ASSEMBLY

B0726



MAIN FRAME - ROPS ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-50256-01	1	SP-1000 ROPS KIT
2	102-09623-01	2	SEAT BELT KIT WITH TETHER STRAPS
3	298-00178-93	4	1/2 X 1-1/4 CS-GR.5
4	298-02063-71	4	1/2 - 13 LOCKNUT -FLG
5	398-20000-89	12	7/8" LOCK WASHER
6	298-00183-93	12	7/8"-9 X 2-1/2" C.S. GR 8

IMPORTANT

Regular periodic inspections to ensure ROPS are damage free and thus capable of functioning in an upset cannot be over emphasized. Carefully read the message that follows previously published by the Construction Industry Manufacturers Association (CIMA).

ROPS (Roll-Over Protection Structures)

Periodically inspect ROPS for cracks and loose mounting hardware.

Replace all missing, deteriorated or worn rubber parts.

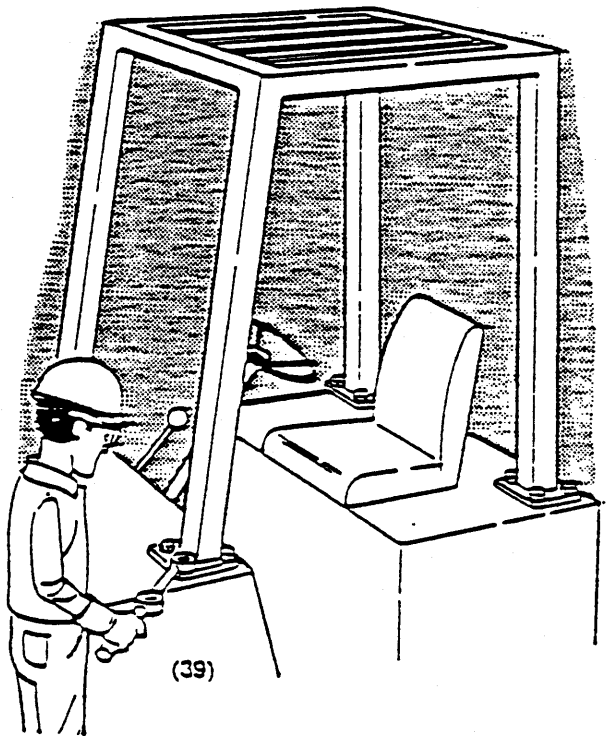
If it becomes necessary to remove a ROPS, reinstall it only on the same machine, in its original position. (39)

NEVER alter the ROPS in any way without the written approval of the manufacturer.

NEVER cut holes in or weld on ROPS without the manufacturer's approval.

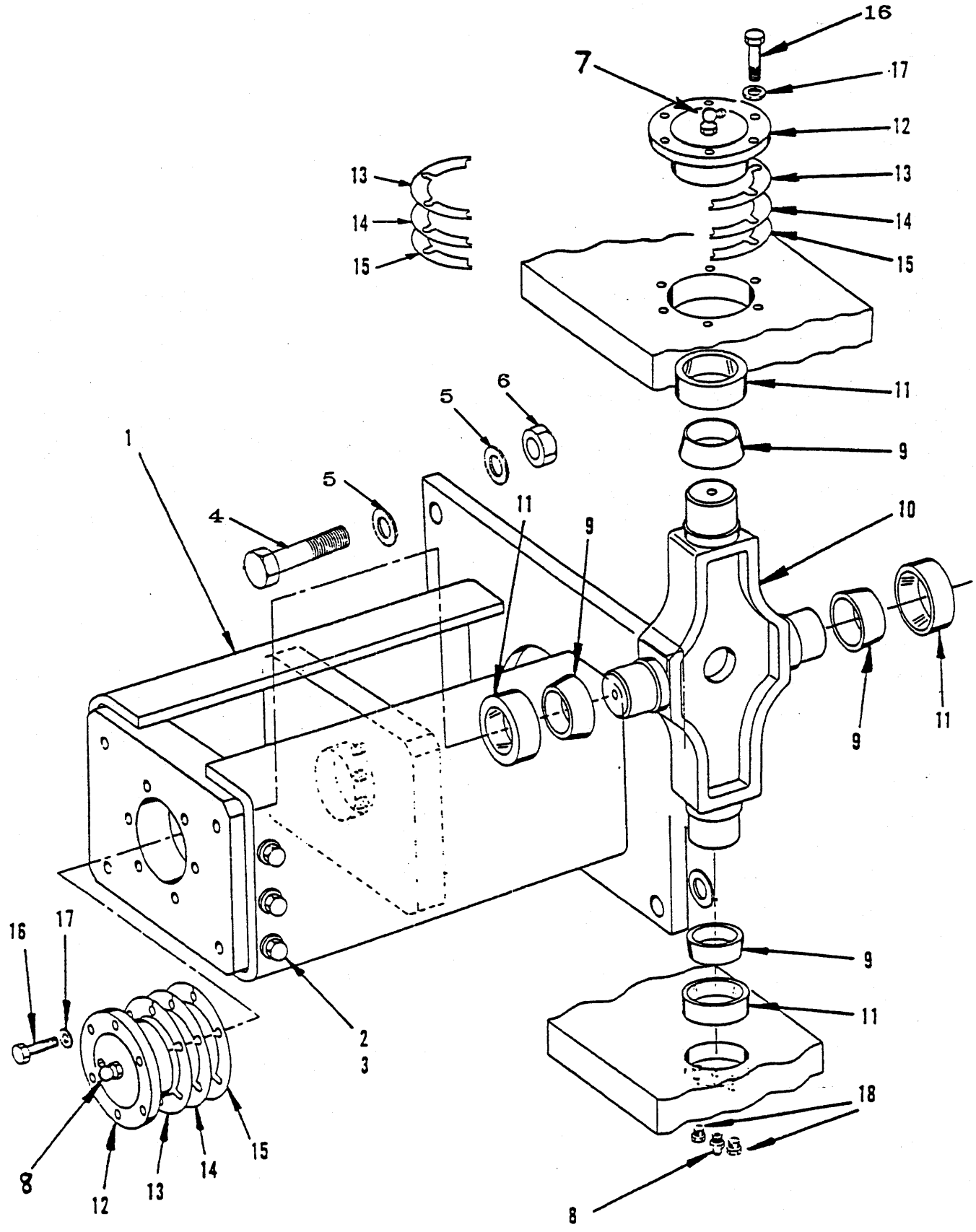
NEVER attempt to repair a damaged ROPS - it must be replaced with a new unit approved for that machine.

Periodically inspect seat belts for wear, tears, deterioration or excessive dirt. Replace them if necessary.



MAIN FRAME - ARTICULATING JOINT ASSEMBLY

B0733



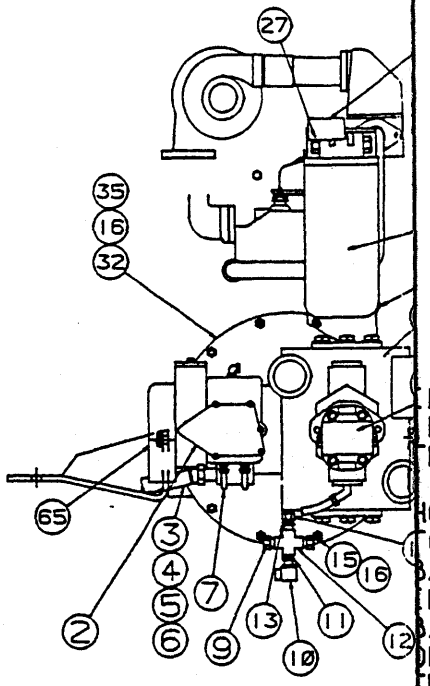
MAIN FRAME - ARTICULATING JOINT ASSEMBLY

ITEM NO.		PART NUMBER	QTY.	DESCRIPTION
1		502-09003-80	1	BEARING HOUSING
2		298-00124-93	6	3/4 X 1-3/4 CAPSCREW GR5
3		298-00042-97	6	3/4 HARDENED WASHER
4		298-00224-93	4	7/8 X 3 UNC CAPSCREW
5		298-00038-97	8	7/8 HARDENED WASHER
6		298-02032-71	4	7/8 LOCK NUT
7		398-08000-11	1	LUBE FITTING 90DEG
8		398-08000-19	3	LUBE FITTING 45DEG
9		298-10027-02	4	INNER RING THRU - BRG
10		402-02616-04	1	ARTICULATING CROSS
11		298-10028-02	4	OUTER RING THRU BRG
12		402-01775-02	2	BEARING RETAINER
13	*	102-31459-01	8	HALF SHIM .005
14	*	102-31459-02	8	HALF SHIM .0075
15	*	102-31459-03	4	HALF SHIM .020
16		398-02002-28	12	1/2 X 2 CAPSCREW
17		398-20000-39	12	1/2 LOCK WASHER
18		398-14005-63	2	1/8 PIPE PLUG

*** = USE AS REQUIRED TO ACHIEVE .005 PRELOAD ON BEARINGS**

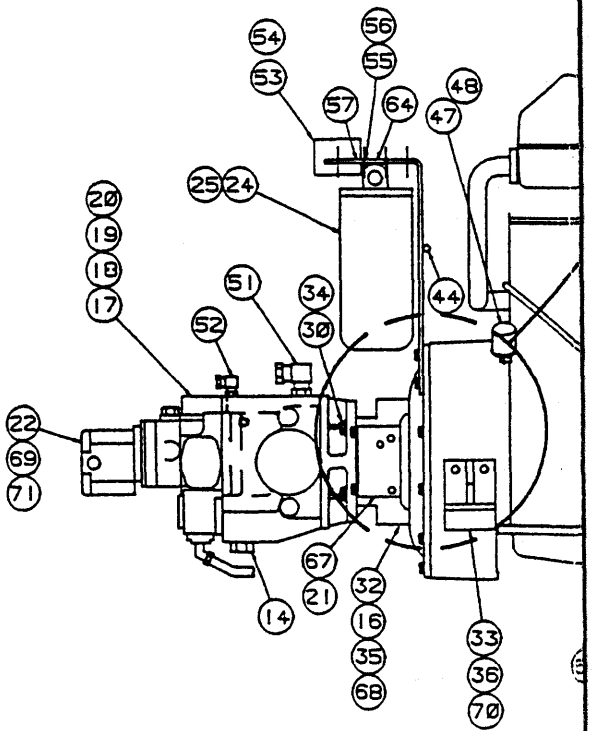
RE

POWER UN



REAR VIEW

NSTALL TANDEM PUMP (ITEM 2) FIRST
FOR CLEARANCE PURPOSES.
RACTION MOTOR CONTROL BRACKET
ITEM 21) IS MOUNTED TO TANDEM PUMP.
ORN RELAY (ITEM 64) IS MOUNTED
O FILTER BRACKET.
ATTERY CABLE-GROUND (ITEM 65)
NSTALLED AT LEFT REAR ENGINE MOUNT.
ATTERY CABLE (ITEM 66) IS MOUNTED
N STARTER MOTOR.
UBE CLAMP (ITEM 44) IS INSTALLED
N FILTER BRACKET.



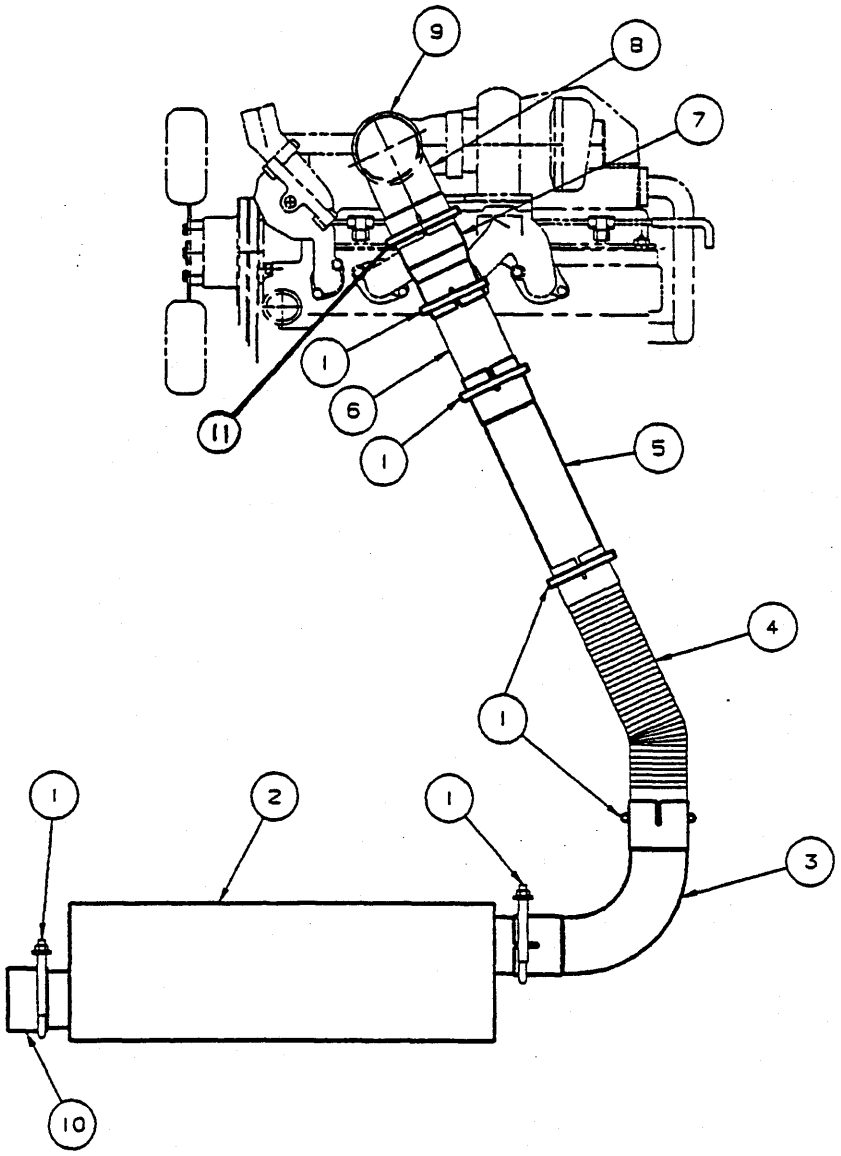
POWER UNIT - ENGINE

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-31681-01	1	JD ENGINE 4239A
2	102-11809-01	1	TANDEM PUMP
3	298-06607-86	2	HOSE CLAMP (T-BOLT)
4	102-11817-01	1	SUCTION HOSE
5	298-06602-86	1	HOSE BARB
6	298-06603-86	1	O-RING/FEMALE SWIVEL
7	298-06605-86	2	ADAPTER LONG 90 DEG
8	298-08050-86	4	ADAPTER #16 O-RING
9	398-14000-13	3	1/2" X 3/8" OUTSIDE BUSHING
10	298-06507-86	1	3/4" X 90 DEG ELBOW
11	298-12013-86	1	1/2" X 3/4" NIPPLE
12	298-19038-86	1	1/2" PIPE NPT CROSS
13	298-12001-86	1	1/2" CLOSE NIPPLE
14	X204251	1	ADAPTER STR
15	298-00105-93	12	3/8" X 1-1/4" HT ZN CAPSCREW
16	398-20000-37	12	3/8" LOCK WASHER
17	102-13058-01	1	HYDRAULIC PUMP
18	298-00114-93	4	1/2" X 1-1/2" HT ZN CAPSCREW
19	298-00039-97	8	1/2" HARDENED WASHER
20	102-31495-01	1	GASKET
21	502-30218-80	1	TRACTION MOTOR CTRL BRKT
22	102-13057-01	1	GEAR PUMP
23	298-08353-86	1	ADAPTER TO OIL COOLER
24	298-00190-53	1	OIL FILTER HEAD
25	298-00191-53	1	OIL FILTER ELEMENT
26	502-20880-80	1	SHROUD RAD/OIL COOLER
27	298-08210-86	1	HOSE BARB
28	102-50395-01	1	RADIATOR
28A	298-05177-92	1	RADIATOR CAP
29	298-02263-62	1	3/4" SERVICE TEE
30	298-00124-93	4	1/2" X 1-3/4" ZN CAPSCREW
31	102-31193-01	1	OIL COOLER
32	102-11460-01	1	2 PUMP GEARCASE
33	502-20879-80	2	REAR ENGINE MOUNT
34	398-20000-13	4	5/8" CUT WASHER
35	298-00284-93	8	3/8" X 3/4" CAPSCREW GRADE 5
36	298-00114-93	8	1/2" X-1/2" HT CAPSCREW
37	502-09389-80	1	FRONT ENGINE MOUNT
38	398-20000-66	2	3/8" ZINC PLATED
39	298-08209-86	1	90 DEG ADAPTER
40	102-13089-01	1	UPPER RADIATOR HOSE

POWER UNIT - ENGINE - (Continued)

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
41	102-31306-02	1	HOSE ASSEMBLY
42	502-30209-86	1	TURBO EXHAUST ELBOW
43	298-00460-47	1	V-BAND CLAMP
44	298-00057-47	1	TUBE CLAMP
45	298-06571-86	2	90 DEG REDUCING ELBOW
46	298-17002-86	1	3/4" PIPE TEE
47	398-14011-49	1	1/8" SERVICE TEE
48	298-06061-17	1	SWITCH-PRESSURE 12V
49	298-13030-86	4	1" PIPE PLUG
50	212-02119-56	1	TEMPERATURE SENDER
51	298-08089-86	1	90 DEG ADAPTER ELBOW
52	298-08184-86	1	ADAPTER
53	298-02040-62	1	ADAPTER 1/8" 90DEG ELBOW
54	298-02140-56	1	VACUUM GAUGE
55	398-95001-81	2	5/16" LW ZN PL
56	298-00101-93	2	5/16" X 1" HT Z PL CAPSCREW
57	502-20883-80	1	FILTER BRACKET
58	298-05764-68	1	LOWER RADIATOR HOSE
59	298-06526-86	1	90 DEG ELBOW TO OIL COOLER
60	102-31798-01	1	THROTTLE CABLE BRKT
61	298-90000-86	2	HOSE CLAMP RADIATOR
62	298-09012-86	2	HOSE CLAMP - RADIATOR
63	102-13046-01	1	TUBE - FUEL RETURN
64	298-15018-17	2	HORN RELAY
65	502-20161-89	1	BATTERY CABLE - GROUND
66	102-08523-07	1	BATTERY CABLE
67	398-02002-19	2	1/2" X 1-1/4 HEX HD CAPSCREW
68	102-31790-01	1	PILOT BUSHING
69	298-00326-93	2	3/8" X 1-1/4" C.S.
70	398-20000-39	8	1/2" LOCKWASHER
71	298-03594-68	1	O-RING
72	298-00124-93	4	5/8" X 1-3/4" CAP SCREW
73	398-20000-41	4	5/8" LOCKWASHER
74	298-09070-86	2	HOSE CLAMP
75	102-13112-01	1	HOSE ASSY 3/8" X 72"
76	298-08049-80	REF	ELBOW 90 DEG
77	102-31740-02	1	HOSE ASSEMBLY 1/4" X 70"
78	298-06508-86	REF	1/4" STREET ELBOW
79	298-02096-62	REF	ADAPTER STRAIGHT
80	298-09066-86	2	CLAMP

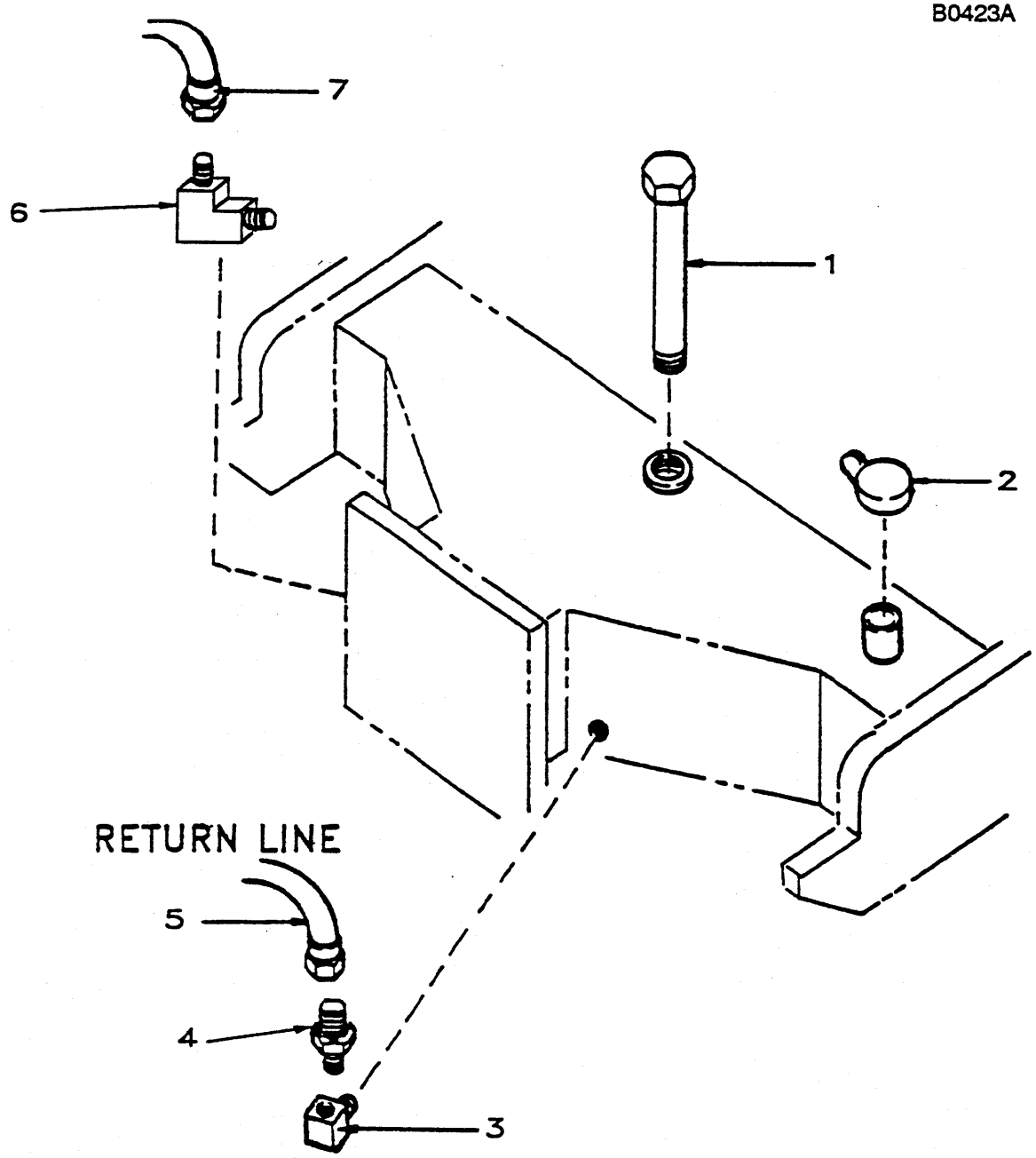
POWER UNIT - EXHAUST SYSTEM



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-00457-47	6	CLAMP 3-1/2"
2	298-05212-92	1	MUFFLER
3	298-05294-92	1	90DEG ELBOW
4	298-05229-92	1	FLEX CONNECTOR, EXHAUST
5	102-13042-01	1	EXHAUST STACK
6	298-05307-92	1	CONNECTOR
7	298-05306-92	1	TUBE REDUCER
8	502-30209-80	1	ELBOW TURBO OUTLET
9	298-00460-47	1	V-BAND CLAMP
10	102-11830-01	1	EXHAUST PIPE SUPPORT
11	298-00417-47	1	CLAMP 4"

POWER UNIT - FUEL SYSTEM ASSEMBLY

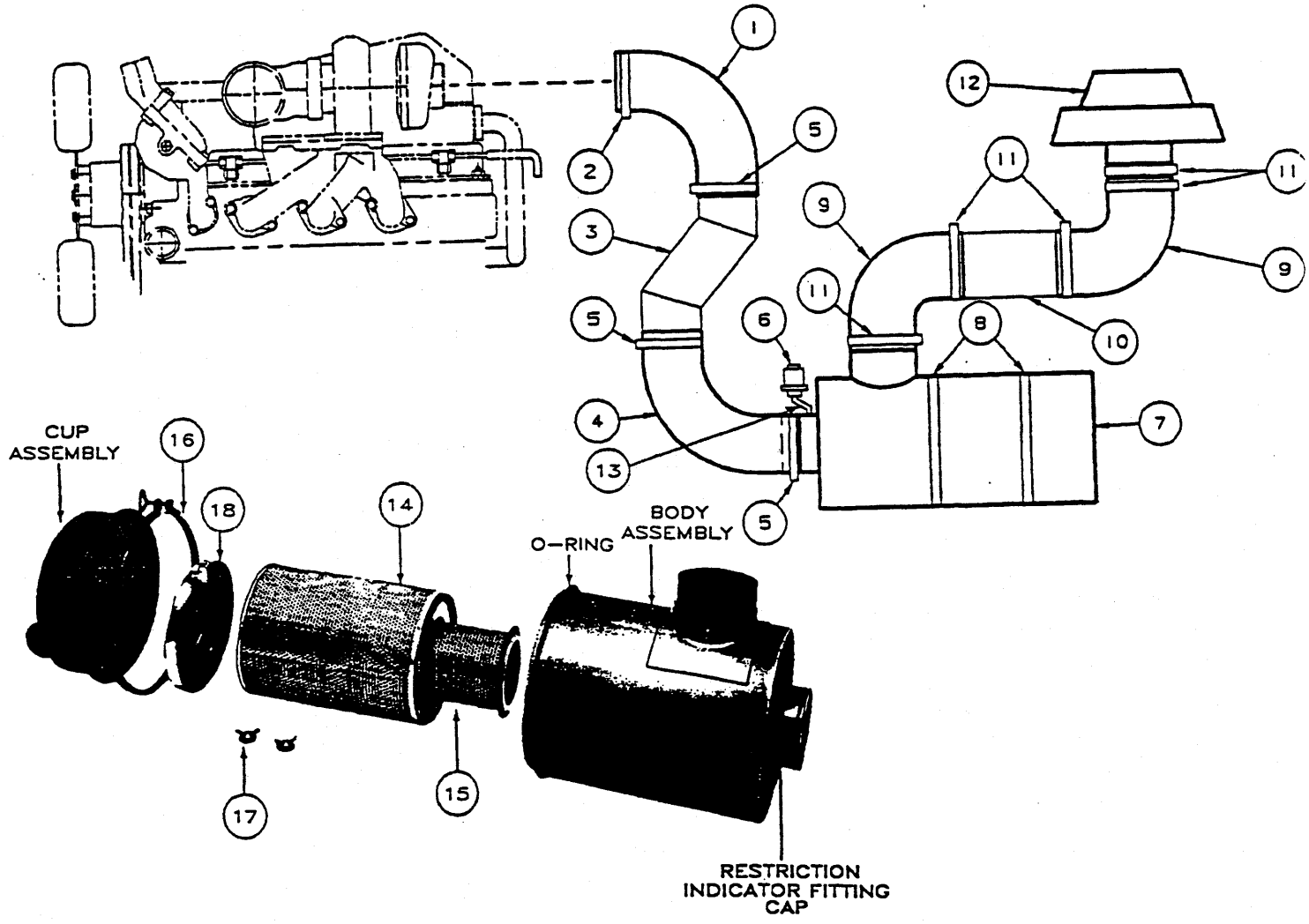
B0423A



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-30244-01	1	FUEL GAGE
2	298-00175-47	1	FUEL CAP
3	298-06508-86	1	1/4" NPT STREET ELBOW
4	298-02096-62	1	1/4 NPT X 7/16-20 ADAPTER
5	102-31740-02	1	HOSE ASSEMBLY 70"
6	298-08049-86	1	90 DEG ELBOW
7	102-13112-01	1	HOSE ASSEMBLY 72"

POWER UNIT - AIR INTAKE SYSTEM

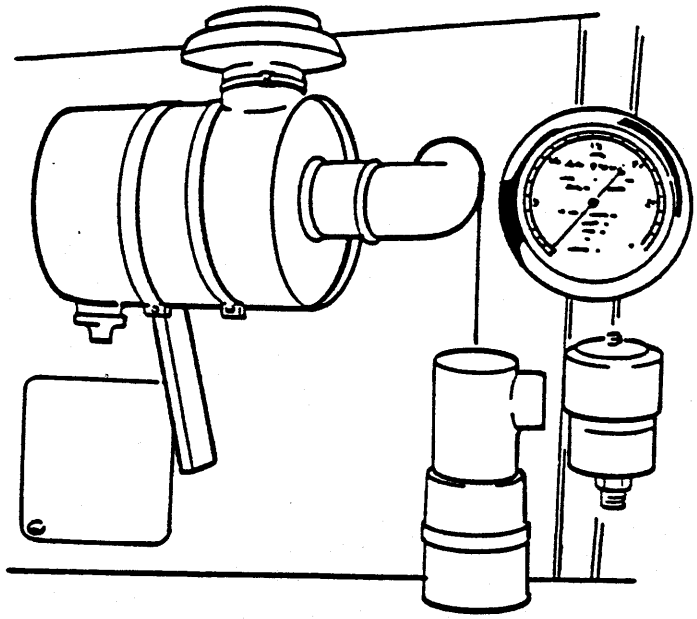
B0735



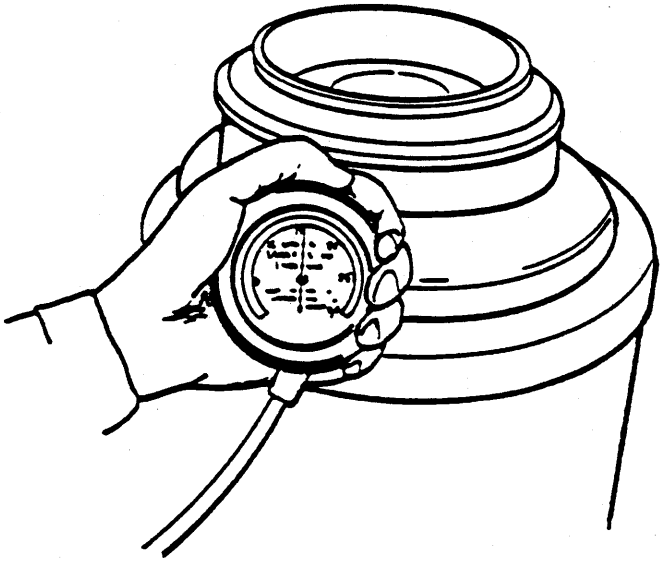
ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-05309-92	1	4 X 3 ELBOW
2	298-09015-86	1	CLAMP
3	502-30214-80	1	AIR INLET TUBE
4	298-05092-92	1	INTAKE ELBOW
5	298-09026-86	3	CLAMP
6	298-06523-68	1	AIR FILTER INDICATOR
7	102-13009-01	1	AIR CLEANER
8	298-05301-92	2	MOUNTING BANDS
9	298-05310-92	2	ELBOW
10	102-13110-01	1	TUBE
11	298-09026-86	5	CLAMP
12	298-05303-92	1	AIR INLET HOOD
13	398-08000-31	2	1/8" NPT X 45DEG
14	102-13009-13	1	PRIMARY FILTER ELEMENT
15	102-13009-15	1	SAFETY ELEMENT
16	102-13009-11	1	CLAMP ASSEMBLY
17	102-13009-16	1	NUT ASSEMBLY
18	102-13009-12	1	BAFFLE

POWER UNIT - RECOMMENDED SERVICE PROCEDURE FOR ENGINE AIR CLEANER/ELEMENT

REXWORKS INC. recommends that you follow the Air Cleaner/Element Service Procedure listed below for Optimum Performance and Reliability.

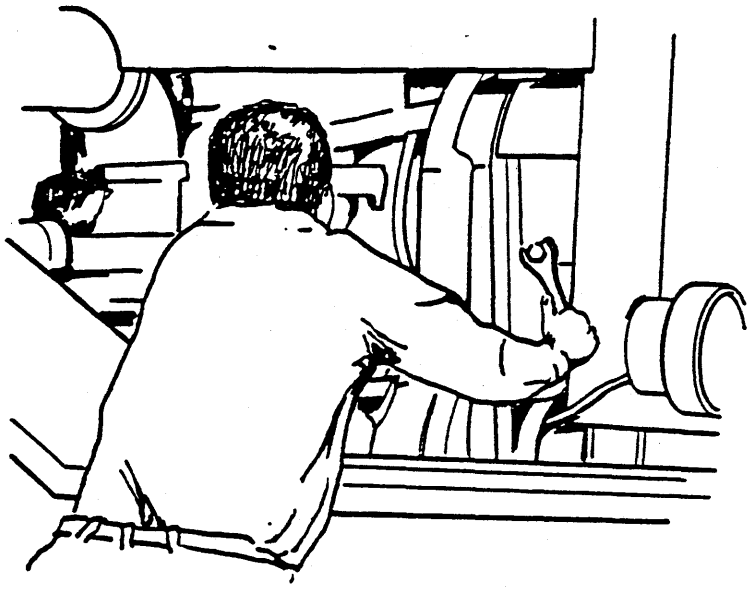


1. To begin with, let restriction levels be your guide. Use a Service Gauge or Restriction Indicator.

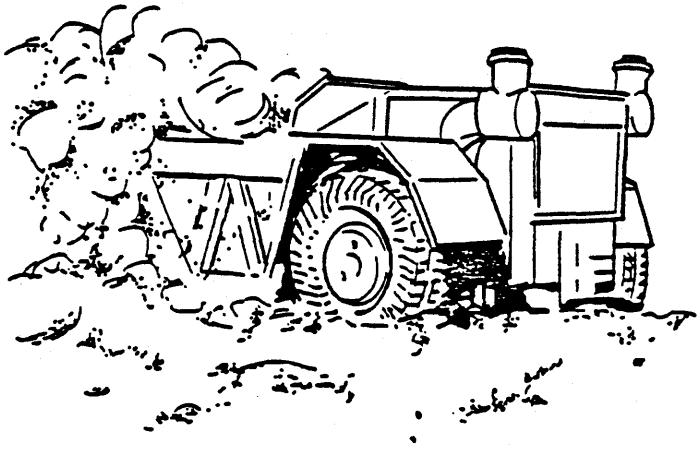


2. Service elements only when restriction reaches the service level of 25 inches. It's only above that point that air cleaner restriction begins to reduce engine performance levels.

POWER UNIT - RECOMMENDED SERVICE PROCEDURE FOR ENGINE AIR CLEANER/ELEMENT (continued)

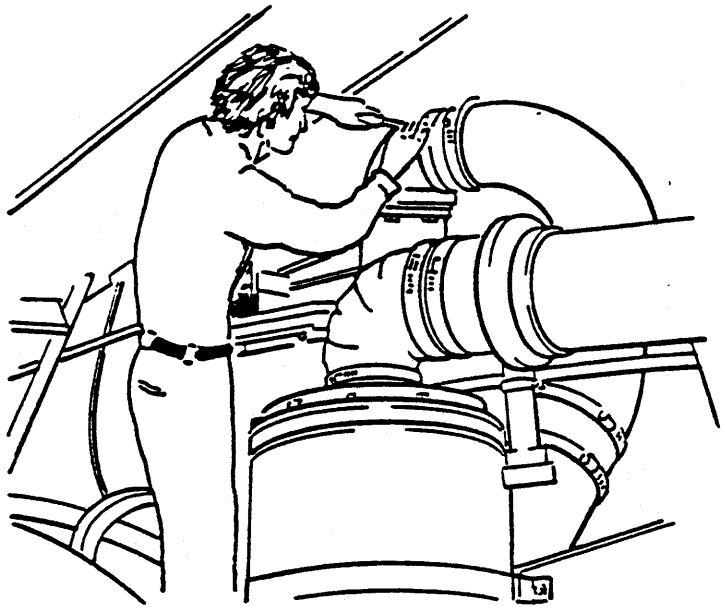


3. If engine performance is poor, but restriction is still within limits, don't change that element! The air cleaner is probably not at fault.

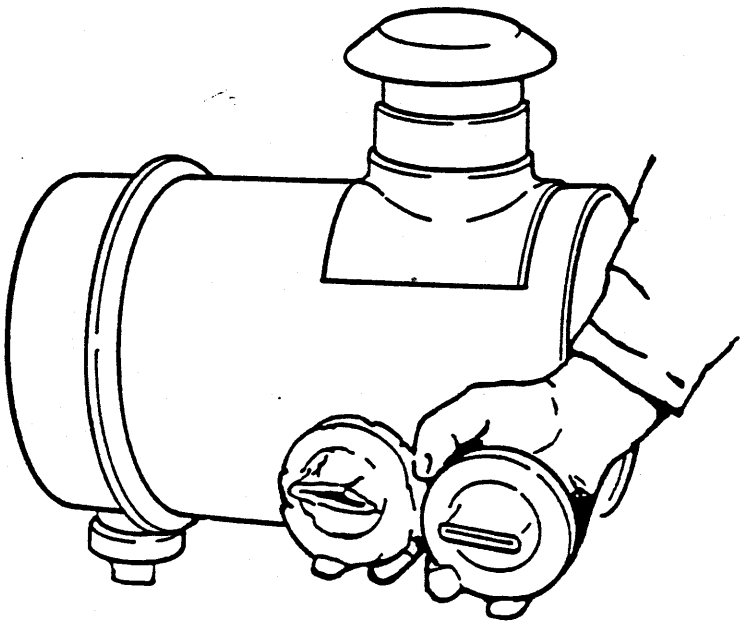


4. To get those extra service hours out of each filter element make sure the air inlet is away from any heavy dust clouds caused by operation. And make sure exhaust carbon cannot enter the air cleaner.

POWER UNIT - RECOMMENDED SERVICE PROCEDURE FOR ENGINE AIR CLEANER/ELEMENT (continued)

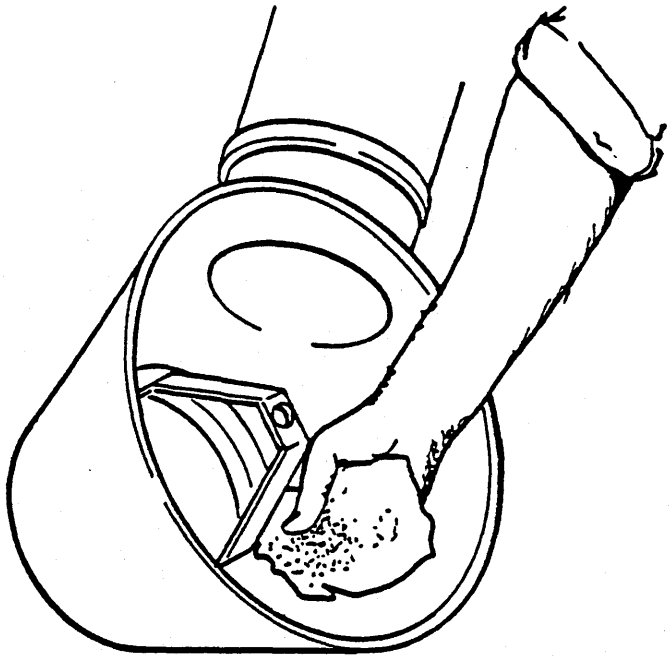


5. Check to see that all connections are tight and leak-free and that breakaway joints, both intake and exhaust, are aligned and sealing.

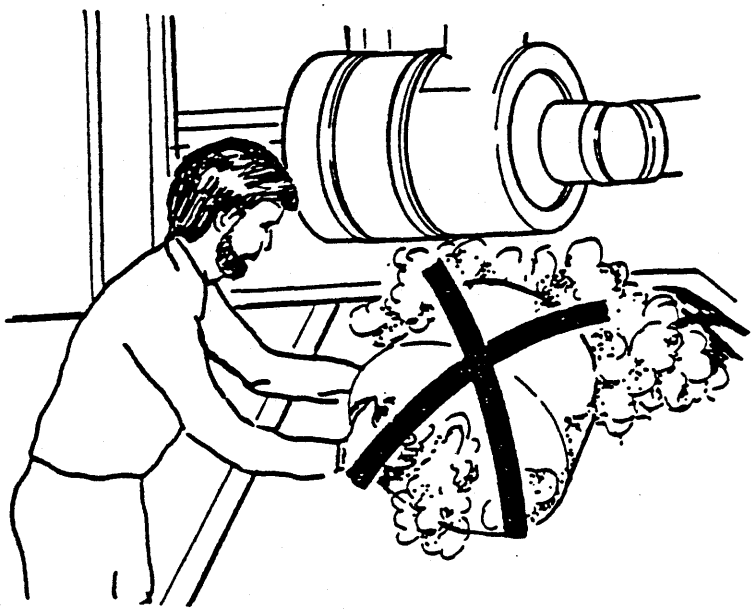


6. Make sure the vacuator valve is not damaged or plugged. Is the cup joint sealing? This should take care of most air cleaner related performance problems.

POWER UNIT - RECOMMENDED SERVICE PROCEDURE FOR ENGINE AIR CLEANER/ELEMENT (continued)

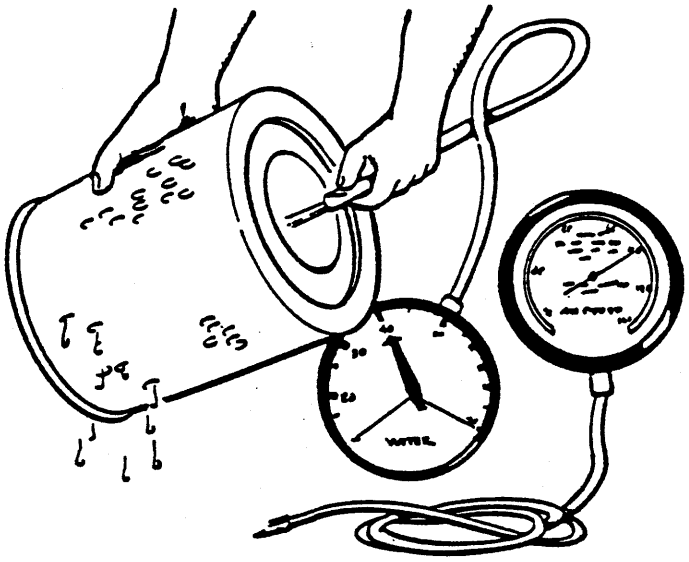


7. When restriction readings finally indicate a change, remove the primary element carefully. Use a damp cloth to wipe out all excess dust in the air cleaner.

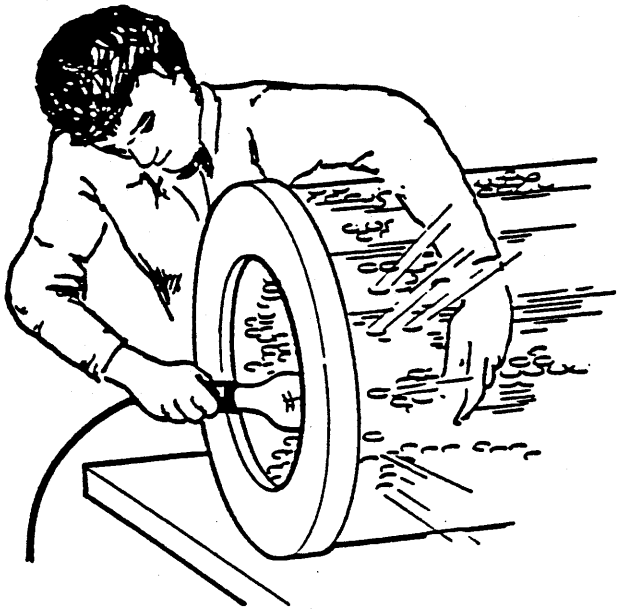


8. If you reuse elements, clean them with care. Rapping, tapping or pounding dust out of them is dangerous. Severe damage to the filter will result.

POWER UNIT - RECOMMENDED SERVICE PROCEDURE FOR ENGINE AIR CLEANER/ELEMENT (continued)

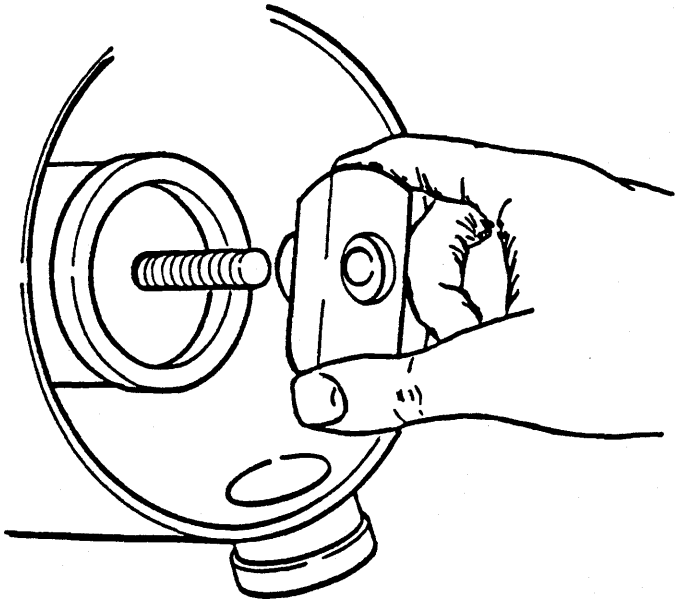


9. Thorough cleaning with air or water is recommended in many cases. But be careful. Too much pressure can break the filter paper and destroy the element.

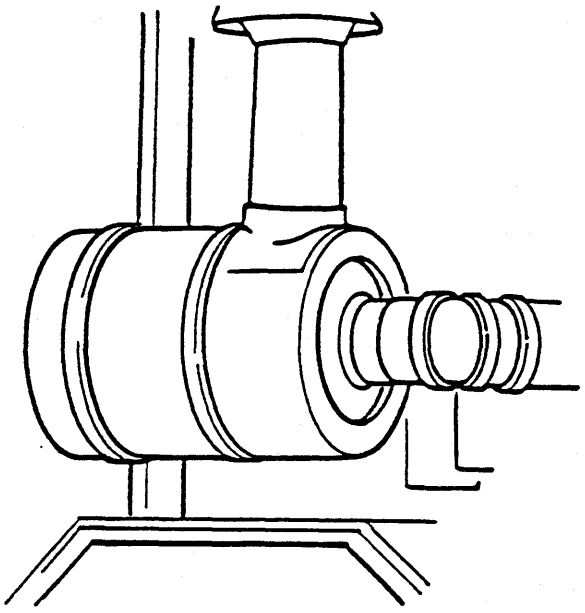


10. Carefully check new or properly cleaned elements for damage before installing.

POWER UNIT - RECOMMENDED SERVICE PROCEDURE
FOR ENGINE AIR CLEANER/ELEMENT (continued)

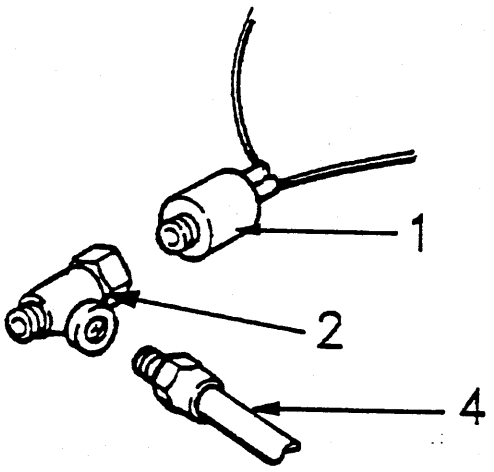


11. Never attempt to clean a safety element. Change safety elements after three primary element changes or as indicated by the Service Indicator.

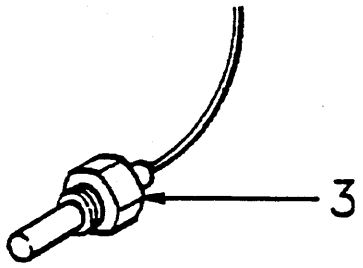


12. Then, make it a habit not to disturb the element until restriction again reaches the service limit...

POWER UNIT - SENDING UNITS FOR INSTRUMENTS



HOUR
METER
ACTUATOR



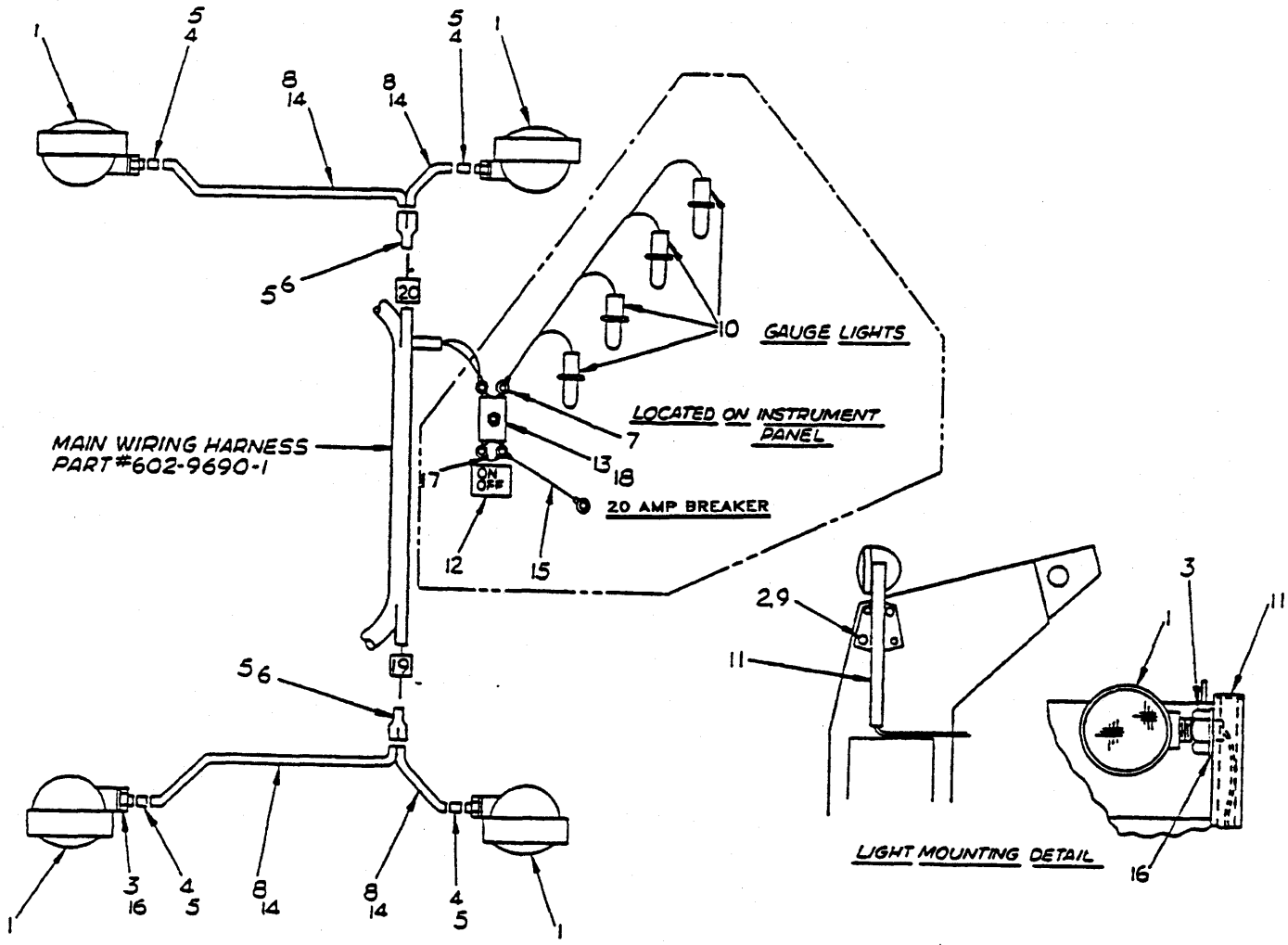
WATER
TEMPERATURE

POWER UNIT - SENDING UNITS FOR INSTRUMENTS

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-06061-17	1	SWITCH-PRESSURE 12 VOLT
2	398-14011-49	1	1/8" SERVICE TEE
3	212-02119-56	1	TEMP. SENDER
4	502-01338-98	1	HOSE ASSEMBLY

ELECTRICAL COMPONENTS - LIGHTS; FRONT, REAR & INSTRUMENT PANEL (OPTIONAL)

B0734

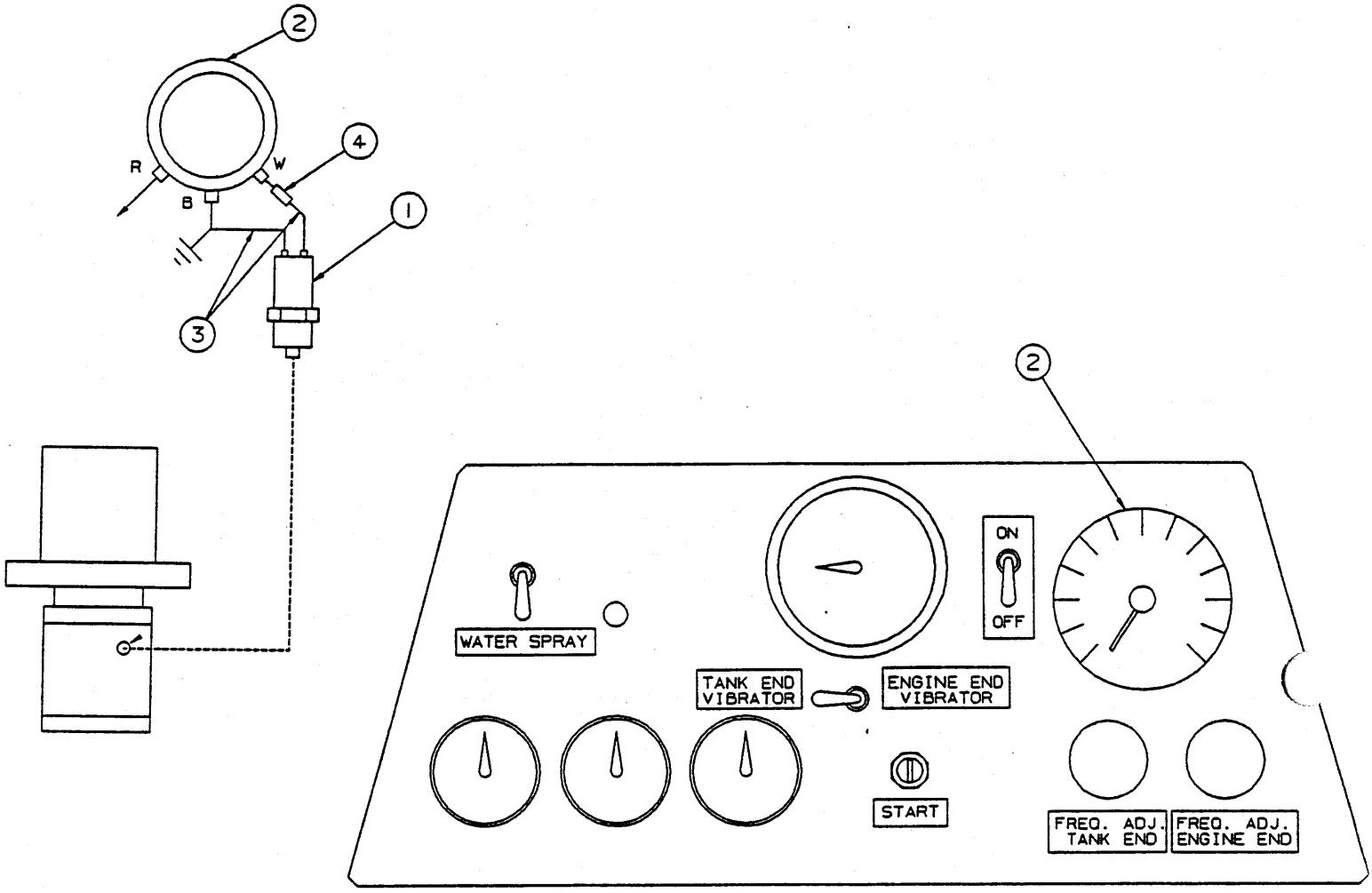


ELECTRICAL COMPONENTS - LIGHTS; FRONT, REAR & INSTRUMENT PANEL (OPTIONAL)

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-12258-01	4	LIGHT
2	298-00185-93	8	CAPSCREW
3	398-11000-04	4	1/2" NUT
4	298-26057-17	4	2-WAY BULLET SPLICE
5	298-26029-17	14	BULLET TERMINAL
6	298-26101-17	2	3-WAY BULLET SPLICE
7	298-26004-17	5	RING TERMINAL
8	398-95002-93	31 FT.	#14 PLASTIC COATED WIRE
9	398-20000-39	8	1/2" LOCK WASHER
10	298-13162-17	4	INSTRUMENT LIGHT W/WIRE
11	502-08807-80	4	LIGHT BRACKET
12	102-09220-01	1	LIGHT LABEL
13	298-00052-17	1	BOOT-TOGGLE SEAL
14	398-95002-94	30 FT.	1/4" LOOM
15	502-08794-80	1	WIRE ASSEMBLY
16	398-20000-39	4	1/2" LOCK WASHER
17	502-08794-82	1	WIRE ASSEMBLY
18	298-06123-17	1	SWITCH SPST

ELECTRICAL COMPONENTS - SPEEDOMETER (OPTIONAL)

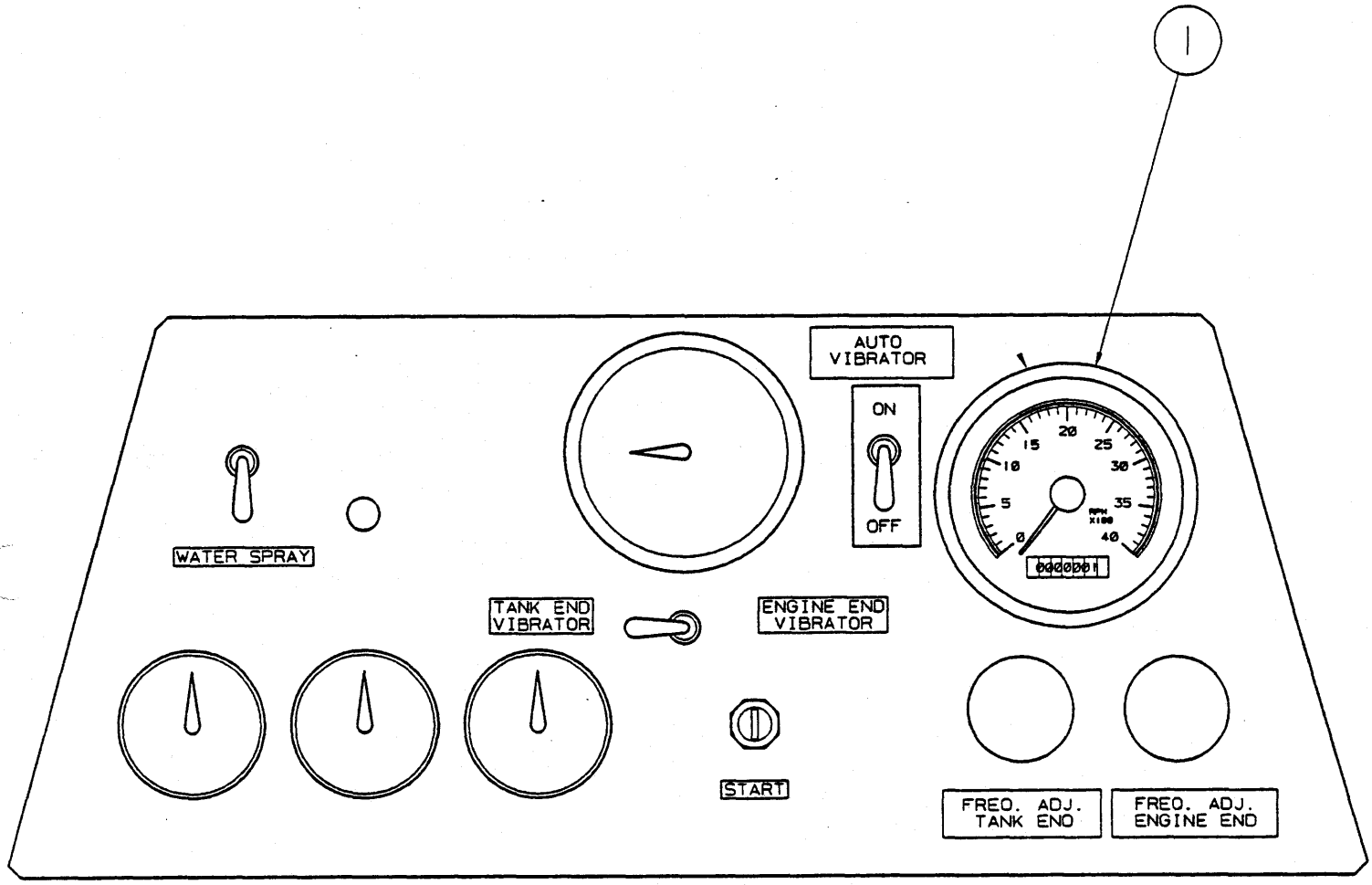
B01733



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-00256-17	1	MAGNETIC PICK-UP
2	602-03791-01	1	SPEEDOMETER
3	502-00205-80	1	CORD
4	298-26100-17	1	SPLICE-WIRE

ELECTRICAL COMPONENTS - TACHOMETER - HOUR METER (OPTIONAL)

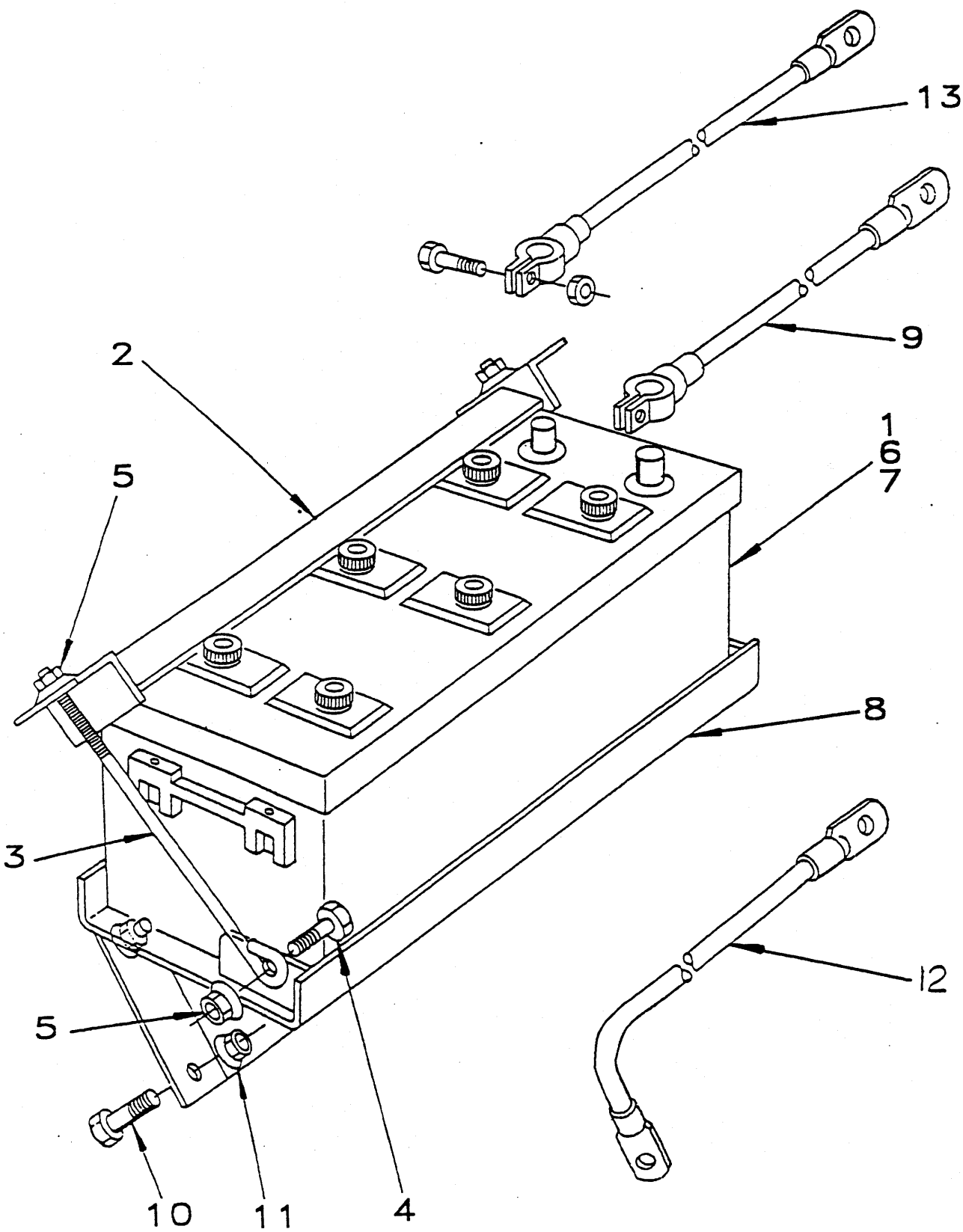
B01732



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-03041-17	1	TACHOMETER/HOUR METER
2	298-26153-17	1	TACH LEAD KIT

ELECTRICAL COMPONENTS - BATTERY AND ASSEMBLY

B0736



ELECTRICAL COMPONENTS - BATTERY AND ASSEMBLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	602-10744-01	1	BATTERY ASSEMBLY, INCLUDES ITEMS 6 & 7
2	502-02693-80	1	BATTERY CLAMP
3	102-07766-01	2	BOLT - BATTERY HOLD DOWN
4	298-00106-93	2	3/8" X 1-1/2" HT CAPSCREW
5	298-02065-71	4	3/8"-16 FLGD LOCKNUT
6	298-03255-17		BATTERY, 12 VOLT **(PART OF ITEM 1)**
7	298-00007-44		ACID, ELECTROLYTE **(PART OF ITEM 1)**
8	502-08774-80	1	BATTERY TRAY - 1000
9	102-08523-06	1	BATTERY CABLE
10	398-02002-22	4	1/2" X 1-1/2" CAPSCREW
11	298-02063-71	4	1/2" LOCK NUT
12	502-20161-89	1	BATTERY CABLE - 20"
13	502-08523-07	1	BATTERY CABLE

ELECTRICAL COMPONENTS - RECOMMENDED MAINTENANCE/SERVICE PROCEDURE FOR 12 VOLT BATTERY

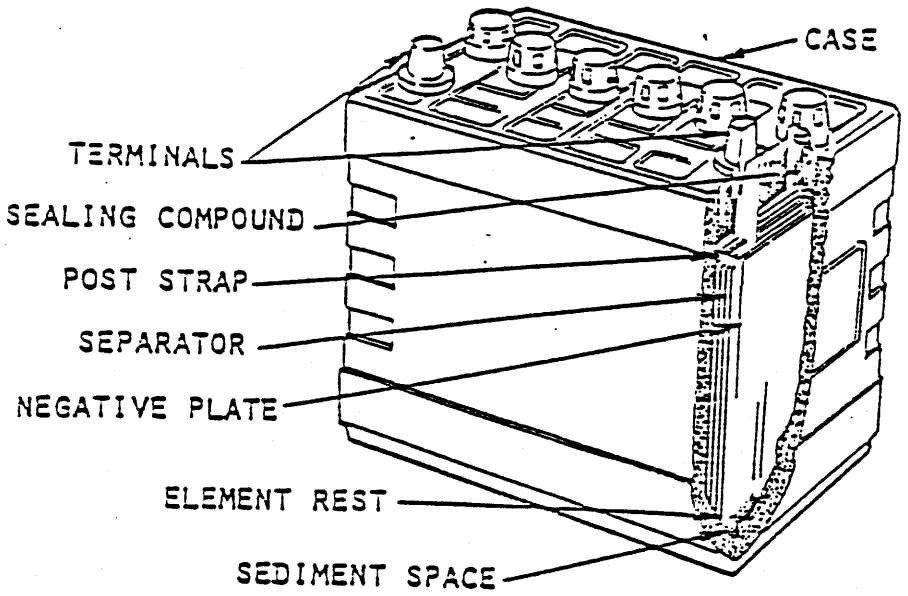


Figure 1 - Typical 12-Volt Battery
(Cut-Away View)

1. TESTING THE 12-VOLT BATTERY (Figure 1)

NOTE

The battery cable terminals should be tight on battery posts to insure good contact. Battery posts and terminals that are corroded should be disconnected, terminals and clamp cleaned with a soda solution and a stiff brush. After cleaning, apply a thin coating of petrolatum.

Specific Gravity Test

Test specific gravity of battery with an accurate hydrometer. Where electrolyte level is too low to make a test, add battery water but do not attempt to test gravity, until battery has been returned to service operation for at least four hours.

The Specific gravity of electrolyte will vary 4 points (.004) with every 10 degrees F. change in temperature. Subtract 4 points (.004) for each 10 degrees below, and add .004 for each 10 degrees above 80 degrees F. before interpreting, as follows:

A fully-charged battery has a specific gravity reading of 1.255 to 1.275 (all batteries for use in temperate climates.)

ELECTRICAL COMPONENTS - RECOMMENDED MAINTENANCE/SERVICE PROCEDURE FOR 12 VOLT BATTERY (continued)

Specific Gravity Test (continued)

A battery that has a specific gravity reading of 1.255 or less, or 1.210 in warm temperature, and all cells reading evenly within 15 specific gravity points (.015) of each other, requires recharging.

A battery that has a specific gravity reading which varies more than 15 points between any two cells should be recharged and high rate discharge tester or other suitable method used to check battery before discarding battery as unsuitable for use.

Voltage Tests

Battery Cell Tester (Open-Circuit Voltmeter)

To make battery test, contact the meter prods to proper cell terminals (red to positive, black to negative), using caution not to connect across more than one cell. The point of prod will have to be pushed through sealing compound to make contact with buried link for each cell reading.

NOTE

Freshly charged batteries have a "surface charge" which causes high and inaccurate readings unless properly dissipated. Turn engine over a few times or turn on lights a few minutes to dissipate charge.

The individual cell readings should not vary more than 0.05 volt between any two cells. A battery varying more than 0.05 volt between any two cells should be recharged and high rate discharge tester or other suitable method used to check battery before discarding battery as unsuitable for use.

High Rate Discharge Test of Capacity (Figure 2)

Satisfactory capacity tests can be made only when battery equals or exceeds 1.210 specific gravity at 80 degrees F.

Connect a carbon pile rheostat in series with an ammeter and battery (Figure 2). Be sure the carbon pile control knob is rotated to full resistance position before connecting. The voltmeter clips must contact battery posts only and not the high rate discharge tester clips. Unless this is done, the actual battery terminal voltage will not be indicated. Rotate carbon pile control knob until 200 amperes register on the meter. With battery under discharge for approximately 15 seconds, read terminal voltage. If terminal voltage shows 9.5 volts or more, battery has good output capacity.

ELECTRICAL COMPONENTS - RECOMMENDED MAINTENANCE/SERVICE PROCEDURE FOR 12 VOLT BATTERY (continued)

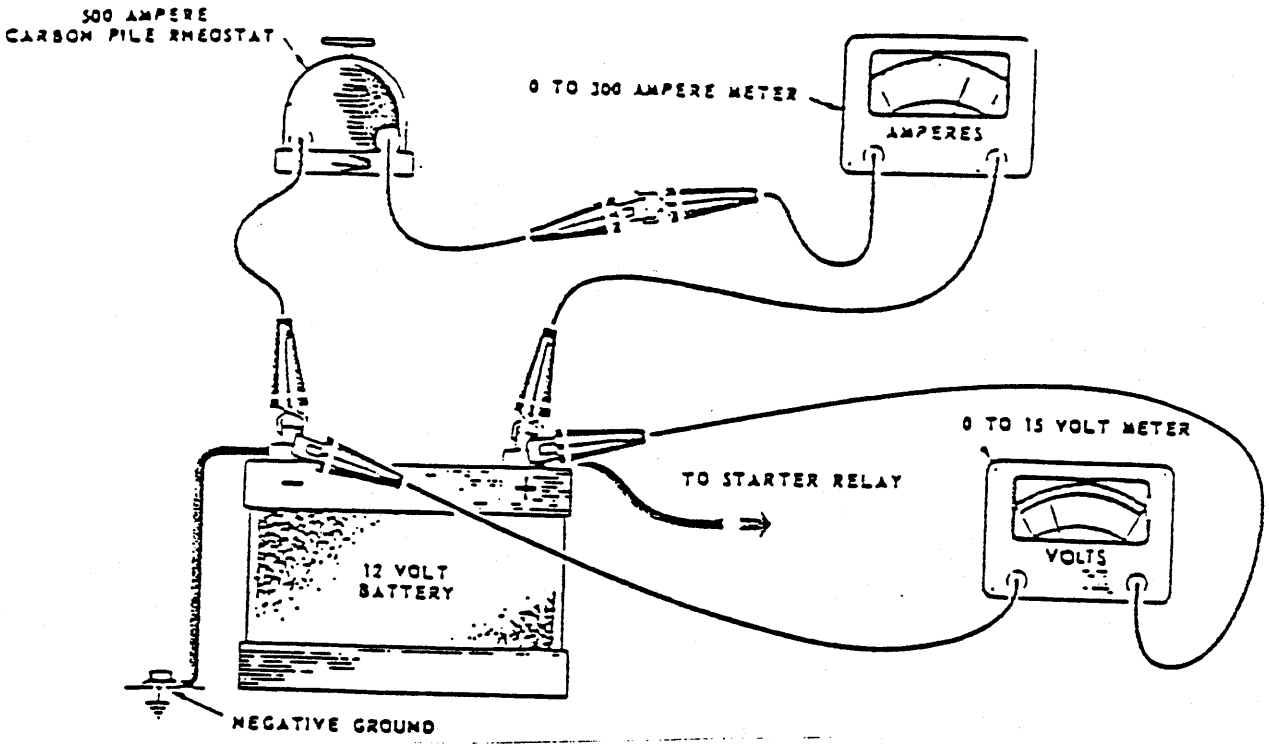


Figure 2 - Test Connections for Battery Capacity Test

2. CHARGING THE BATTERY

Slow Charging

NOTE

Slow charging is recommended wherever possible

The slow chargers commonly used are suitable for charging 12-volt batteries. Each 12-volt unit must be considered as equal to two 6-volt batteries, and charging rate must be adjusted to suit the smallest 12-volt battery on the line. Safe slow charging rates are determined by allowing one ampere per positive plate per cell. The proper slow charging rate for an 11 plate battery is five amperes.

Connect positive (+) charger lead to positive terminal and negative (-) charger lead to negative terminal of battery. If several batteries are to be charged in same circuit, due to charging voltage supply, batteries are connected in series for required number per circuit.

As batteries approach full charge, each cell will begin to gas or bubble freely. The battery temperature should not exceed 125 degrees F. during charge. If this temperature is reached, the battery should be cooled by reducing charge rate or removed from circuit. The battery is fully-charged when three successive hourly hydrometer readings show no rise in specific gravity.

ELECTRICAL COMPONENTS - RECOMMENDED MAINTENANCE/SERVICE PROCEDURE FOR 12 VOLT BATTERY (continued)

Slow Charging Batteries to Remove Sulfation

To condition a battery that is sulfated, charge battery for a minimum of 24 hours at a maximum charging rate of four (4) amperes. As battery approaches full charge check specific gravity at hourly intervals. With no rise in specific gravity for three successive readings batter is charged to its peak capacity.

Fast Charging

Fast chargers give only a boost charge and the charging rate should be confined to the following:

20 to 25 amperes maximum for 40 to 50 ampere hour batteries.

25 to 30 amperes maximum for 60 to 70 ampere hour batteries.

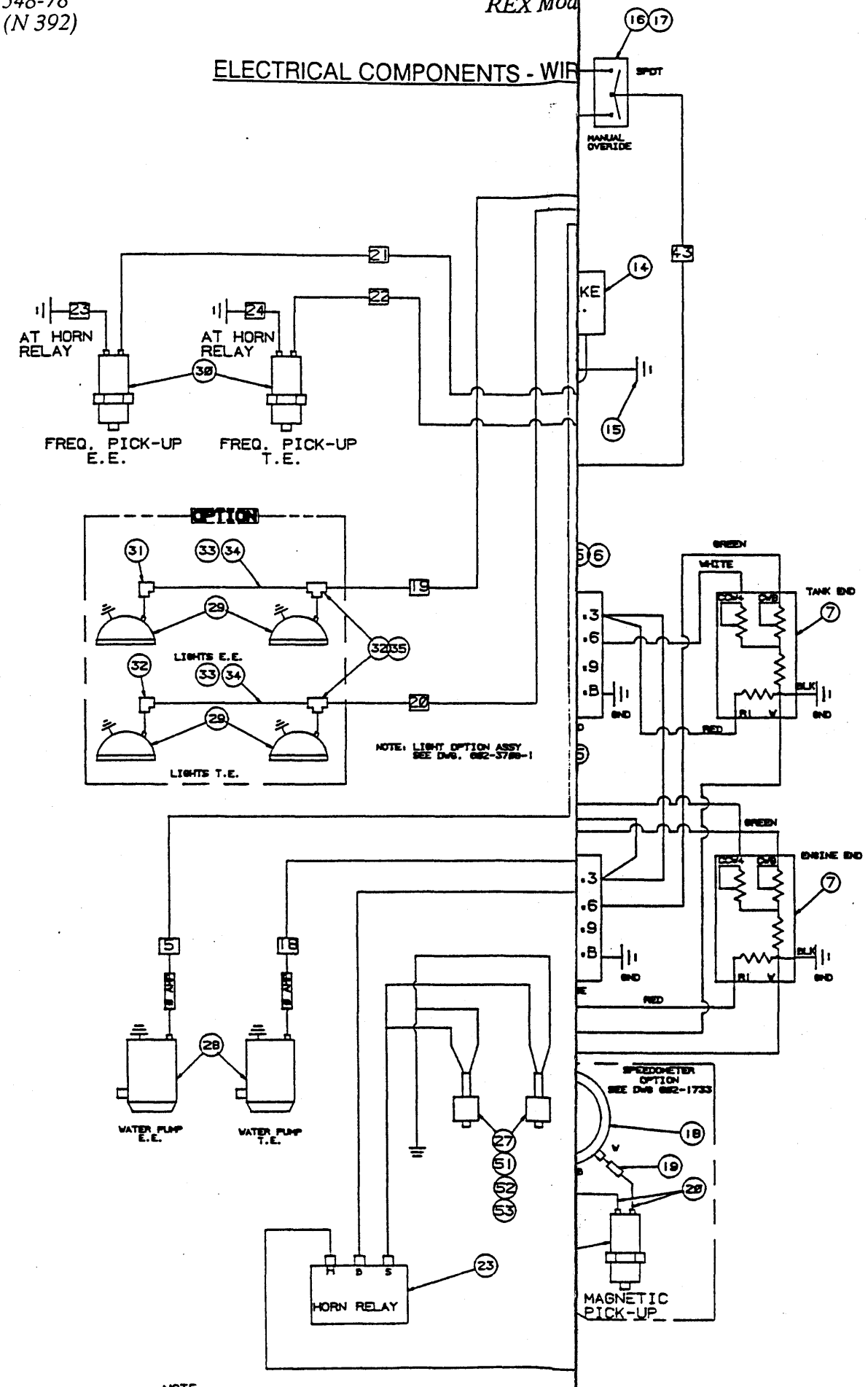
⚠ CAUTION

Battery temperature should not exceed 125 degrees F. during charge. If charger is not equipped with thermostatic cut-off and battery has not received sufficient charging, turn charger off until battery has cooled to 100 degrees F. before starting high rate charge for continued charging.

⚠ WARNING

When batteries are being charged an explosive gas mixture forms beneath cover of each cell. Do not smoke near batteries on charge or which have recently been charged. Do not break live circuits at terminals of batteries on charge. A spark will occur where the live circuit is broken. Keep all open flames away from battery.

ELECTRICAL COMPONENTS - WIR



NOTE:

XX — REPRESENT WIRE NUMBERS ON HARNESS DRAWING

XX — REFER TO PARTS ON LIST OF COMPONENTS

ELECTRICAL COMPONENTS - WIRING DIAGRAM, MAIN SYSTEM

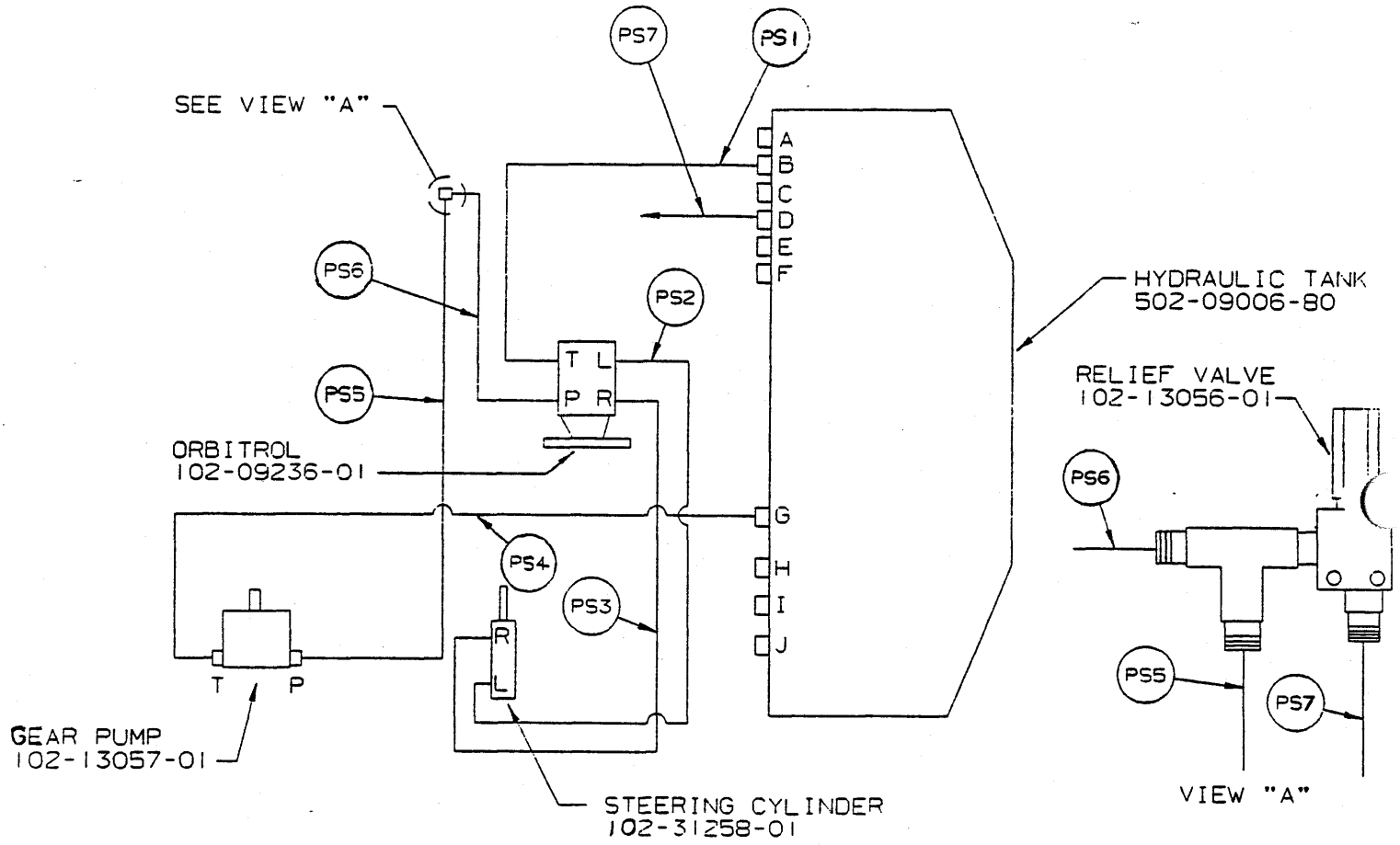
ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	602-20260-01	1	MAIN WIRING HARNESS
2	602-03881-01	1	VIB SWITCH HARNESS
3	602-03795-01	1	FREQUENCY METER
4	298-06568-17	1	LIMIT SWITCH
5	298-15083-17	2	RELAY
6	298-00295-17	2	RELAY SOCKET
7	102-31712-01	2	CONTROL BOX
9	298-30021-17	1	HOURMETER
10	298-03016-17	1	HOURMETER DAMPER
11	298-05005-17	2	20 AMP BREAKER
12	298-05004-17	1	2 AMP BREAKER
13	212-06000-17	1	10 AMP BREAKER
14	102-11971-01	1	SOLENOID VALVE
15	298-26142-17	1	RING TERMINAL
16	298-06144-17	1	TOGGLE SWITCH DPDT
17	298-00052-17	5	SEAL FOR TOGGLES
18	502-03791-01	1	SPEEDOMETER
19	298-26100-17	1	SPICE-WIRE
20	502-00205-80	1	CORD
21	298-00256-17	1	MAGNETIC PICK-UP
22	102-09149-02	1	HORN
23	298-15018-17	2	HORN RELAY
24	298-06067-17	1	HORN BUTTON KIT
25	502-20161-89	2	BATTERY CABLE
26	298-03255-17	1	BATTERY
27	298-06572-17	2	FLOAT SWITCH ASSEMBLY
28	102-06440-01	2	WATER PUMP
29	102-12258-01	4	FLOOD LAMPS
30	298-00103-17	2	SENSOR
31	298-26057-17	2	2-WAY BULLET
32	298-26029-17	6	BULLET TERMINAL
33	398-95002-93	1	#14 WIRE
34	398-95002-94	1	1/4" LOOM
35	298-26101-17	4	3-WAY BULLET SPLICE
36	212-02118-56	1	WATER TEMP GAUGE
37	212-02117-56	1	OIL PRESSURE GAUGE
38	212-02116-56	1	VOLTMETER
39	212-00276-17	1	KEYSWITCH
40	298-13162-17	4	LIGHTING KIT

ELECTRICAL COMPONENTS-WIRING DIAGRAM, MAIN SYSTEM-(Cont.)

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
41	298-06535-17	1	TOGGLE SW SPDT
42	298-06139-17	2	TOGGLE SW SPST
43	502-08794-82	1	WIRE ASSEMBLY
44	298-06123-17	1	TOGGLE SW DPST
45	298-06561-17	1	TOGGLE SW SPST
46	298-06543-17	1	SOLENOID SWITCH
47	502-30285-80	2	POTENTIOMETER
48	102-08523-06	1	BATTERY CABLE
49	102-08523-07	1	BATTERY CABLE
50	298-00048-17	1	CORD GRIP
51	398-14000-44	2	COUPLING 1/8" PIPE
52	398-14001-74	2	NIPPLE
53	102-12888-01	2	PLUG, SPECIAL 1"
54	298-06061-17	1	PRESSURE SWITCH
55	212-02119-56	1	WATER TEMP SENDER

CUSTOMER NOTES

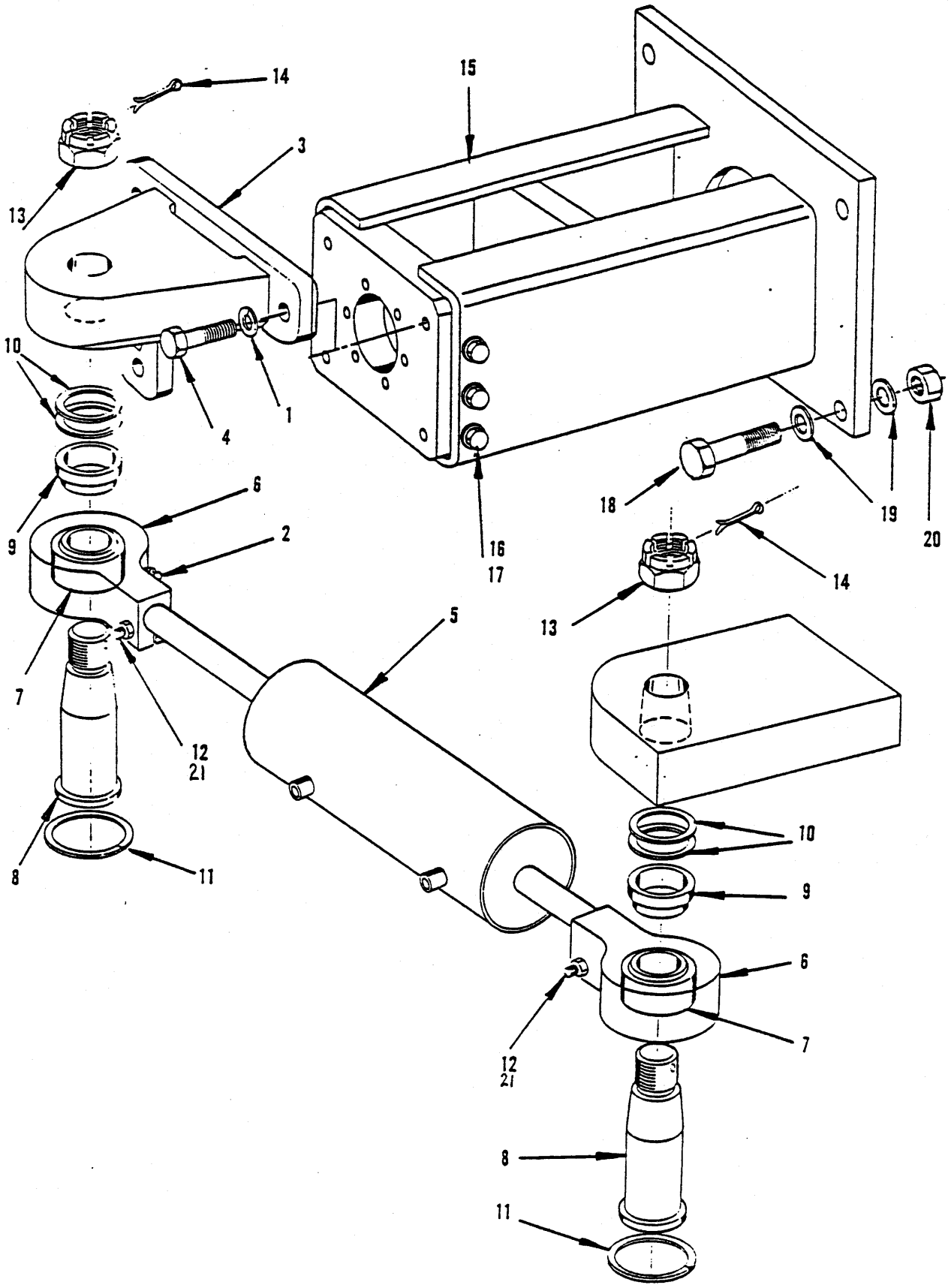
STEERING COMPONENTS - HYDRAULIC STEERING SYSTEM



STEERING COMPONENTS - HYDRAULIC STEERING SYSTEM

HYDRAULIC LINE NUMBER	FUNCTION	PART NUMBER	DESCRIPTION	QTY.
PS1	Port "T" Of Orbitrol	102-03701-01	Hose Assembly 1/2" ID X 75"	1
	To Port "B" Of	298-08110-86	3/4" O-Ring-3/4" Jic Str	1
	Hydraulic Tank	298-06576-86	Fitting 3/4" NPT X 3/4" Jic	1
PS2	Port "L" Of Steering	102-03701-01	Hose Assembly 1/2" ID X 75"	1
	Cylinder To Port "L"	298-08110-86	3/4" O-Ring-3/4" Jic Str	1
	Of Orbitrol	298-02171-62	3/4" Jic-1/2" NPTF 90 Elbow	1
PS3	Port "R" Or Steering	102-03701-01	Hose Assembly 1/2"ID X 75"	1
	Cylinder To Port "R"	298-08187-86	3/4" O-Ring/3/4" Jic Long, Str	1
	Of Orbitrol	298-02171-62	3/4" Jic/1/2" NPTF 90° Elbow	1
PS4	Port "T" Of Gear	102-12931-02	Hose Assembly 3/4" ID X 43"	1
	Pump To Port "G" Of	298-06525-86	Fitting 3/4"NPT X 3/4" Jic 45Deg	1
	Hydraulic Tank	298-08237-86	O-Ring	1
PS5	Port "P" Of Gear	102-03701-20	Hose Assembly 1/2" ID X 64"	1
	Pump To Tee Fitting	298-08358-86	90 DEG Fitting At Tee	1
	Mounted At Shroud	298-08156-86	Straight Fitting	1
PS6	Port "P" Of Orbitrol	102-03701-19	Hose Assembly 1/2" ID X 54"	
	To Tee Fitting In	298-08187-86	Fitting (On Orbitrol)	
	Relief Valve			
PS7	Relief Valve Mounted	102-31326-01	Hose Assembly 3/4" ID X 18"	
	At Shroud To Port	298-08110-86	Fitting 3/4" O-Ring to 3/4" Jic	
	"D" At Hydraulic Tank			

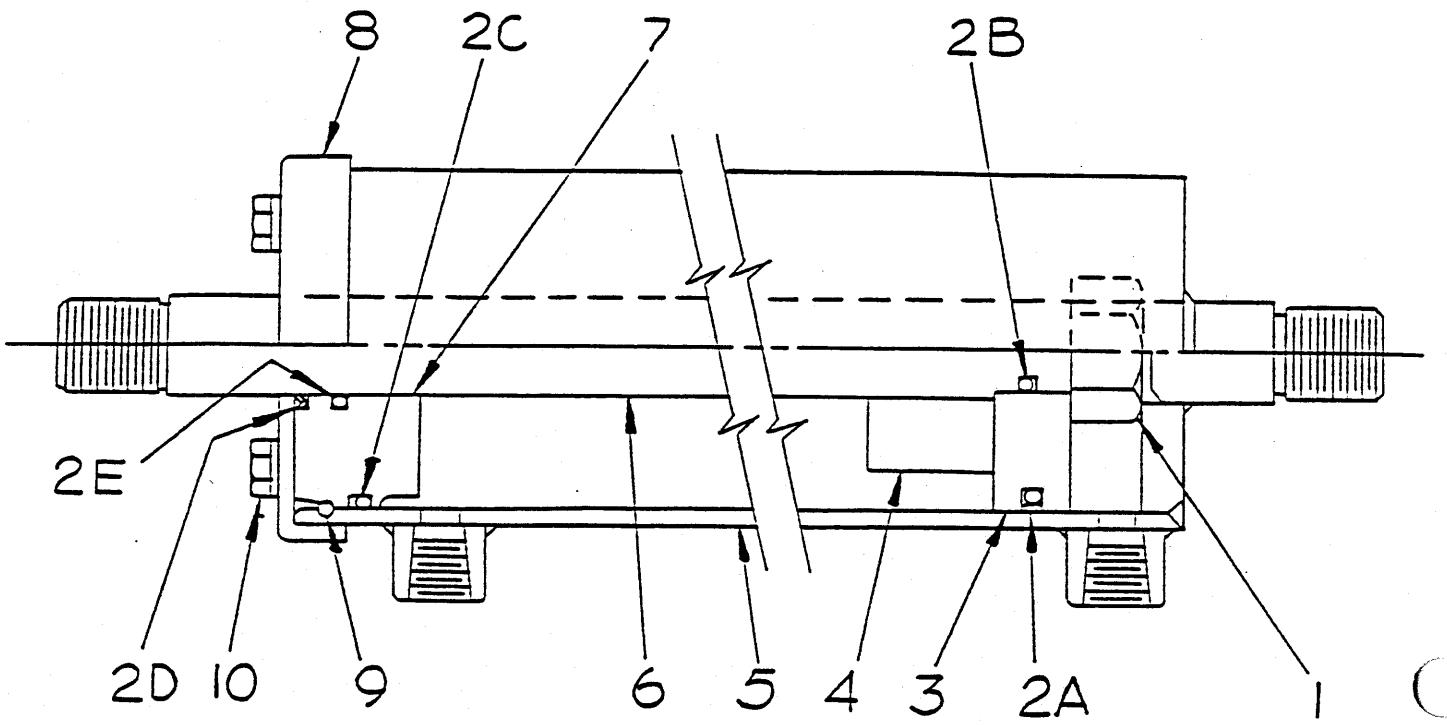
STEERING COMPONENTS - POWER STEERING ATTACHMENT ASSEMBLY



STEERING COMPONENTS - POWER STEERING ATTACHMENT ASSEMBLY

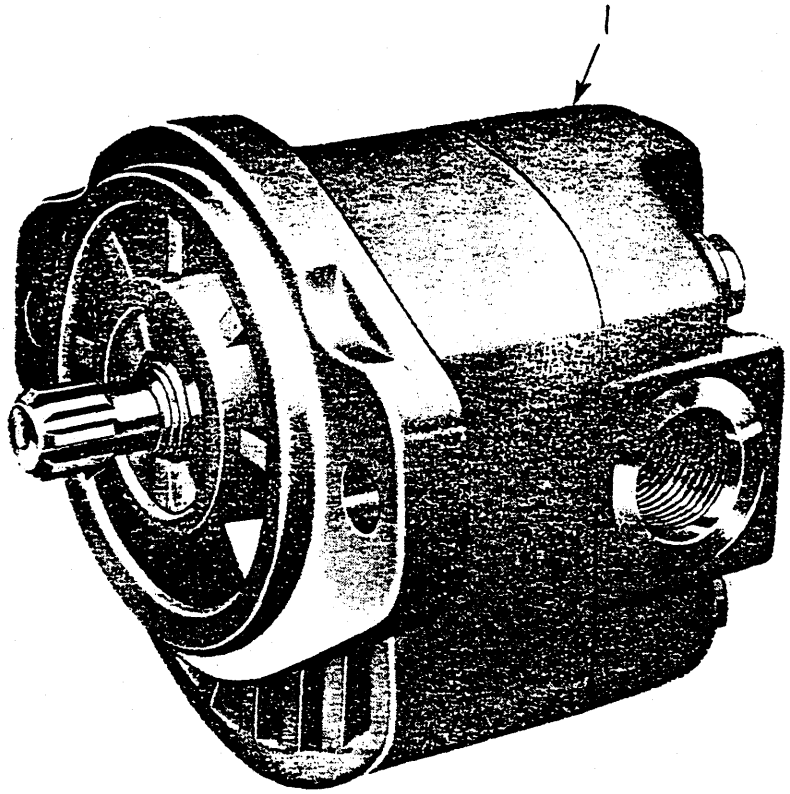
ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-00042-97	3	3/4" HARDENED WASHER
2	398-08000-19	2	#12688B ALEMITE
3	502-20497-80	11	STEERING LUG
4	298-00132-93	3	3/4" X 2-1/2" HT CAPSCREW
5	102-31258-01	1	STEERING CYLINDER
6	102-31257-01	2	BALL JOINT HOUSING
7	298-00407-02	2	SPHERICAL BUSHING
8	102-11457-01	2	BALL STUD
9	102-11458-01	2	BALL JOINT SPACER
10	102-11459-01	4	SOFT SHIM
11	298-07024-34	2	SNAP RING 3-5/8"
12	298-00116-93	2	CAPSCREW 1/2" X 2-1/4"
13	398-11000-87	2	SAE CASTLE NUT 1-1/4"
14	398-03000-68	2	3/16 X 2 COTTER
15	502-09003-80	1	BEARING HOUSING
16	298-00124-93	6	3/4" X 1-3/4" CAPSCREW GR5
17	298-00042-97	6	3/4" HARDENED WASHER
18	298-00224-93	4	7/8" X 3" UNC CAPSCREW
19	298-00038-97	8	7/8" HARDENED WASHER
20	298-02032-71	4	7/8" LOCK NUT
21	298-02063-71	2	1/2"-13 LOCK NUT

STEERING COMPONENTS - HYDRAULIC CYLINDER, POWER STEERING
102-31258-01



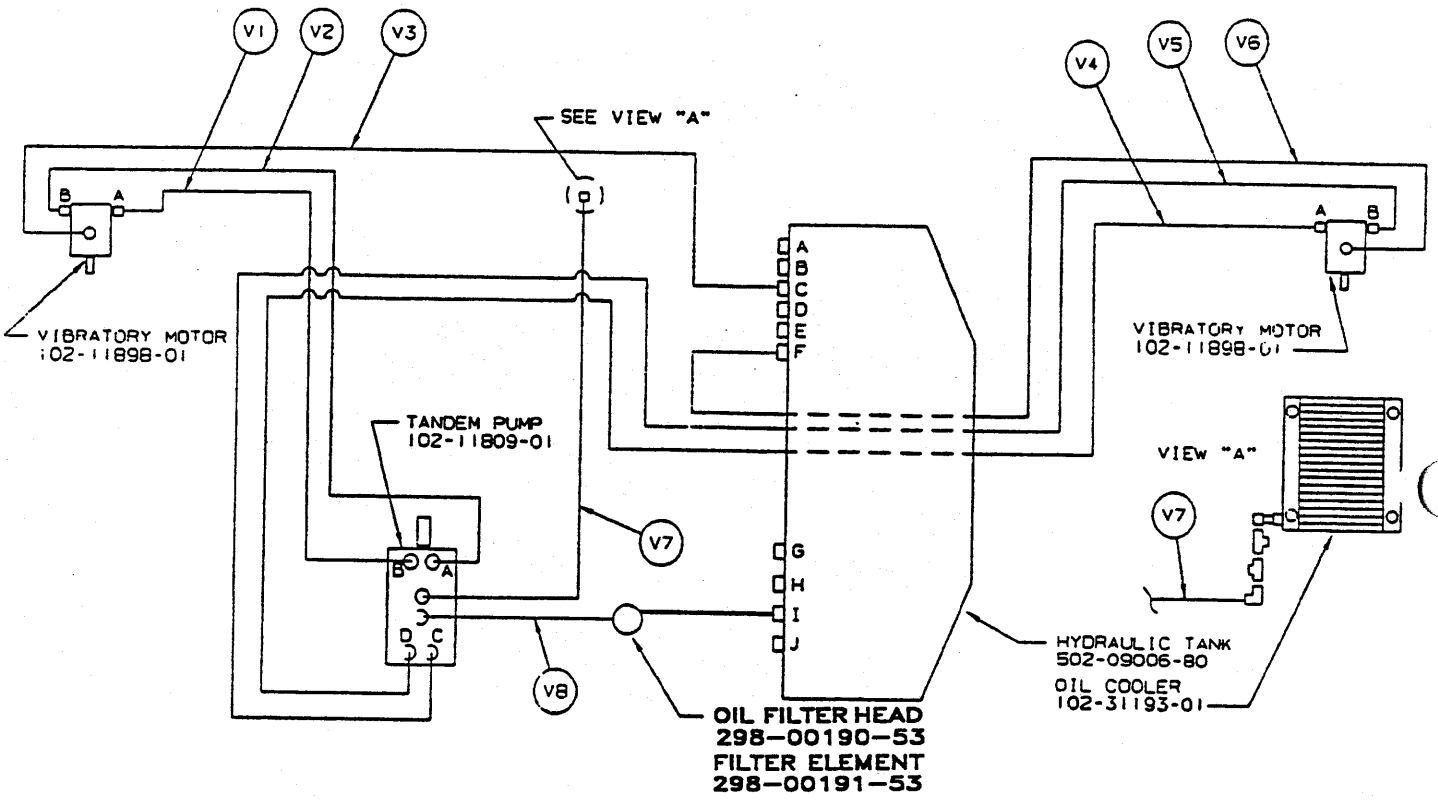
ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-30292-11	1	LOCK NUT
2	102-31008-22		SEAL KIT (INCLUDES ITEMS 2A THRU 2E)
2A	102-31008-11	1	PISTON SEAL
2B	102-30292-16	1	O-RING
2C	102-31008-17	1	O-RING W/BACK-UP
2D	102-30292-21	1	DUST SEAL
2E	102-31008-21	1	O-RING W/BACK-UP
3	102-31008-12	1	PISTON
4	102-31008-13	1	STOP TUBE
7	102-31008-16	1	SLEEVE
8	102-31008-18	1	CAP
9	102-31008-19	1	LOCK WIRE
10	102-31008-20	2	CAP SCREW

HYDRAULICS - STEERING PUMP



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-13057-01	1	GEAR PUMP

HYDRAULICS - VIBRATORY SYSTEM

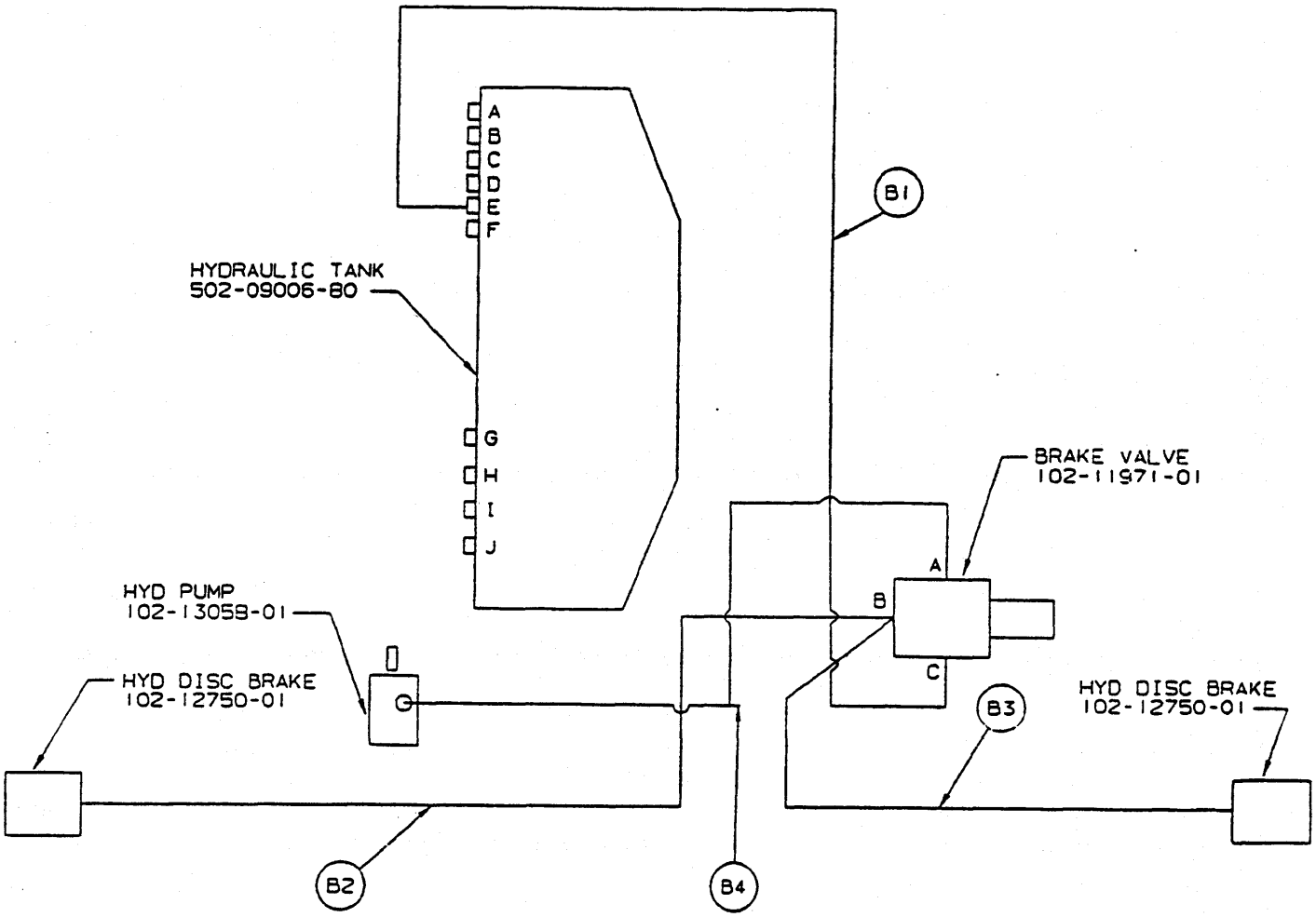


HYDRAULICS - VIBRATORY SYSTEM

HYDRAULIC LINE NUMBER	FUNCTION	PART NUMBER	DESCRIPTION	QTY.
V1	Port "B" Of Tandem Pump To Port "A" Of Vibratory Motor (Front)	102-13059-01	Hose Assembly 3/4" ID X 120"	1
		298-08133-86	Adapter 1-1/16" O-Ring-1-1/16" Jic 90°	1
		298-06577-86	1-5/16" O-Ring-1-1/16" Jic Str.	1
V2	Port "A" Of Tandem Pump To Port "B" Of Vibratory Motor (Front)	102-13059-01	Hose Assembly 3/4"ID 120"	1
		298-08133-86	Adapter 1-1/16" O-Ring-1-1/16" Jic 90°	1
		298-06577-86	1-5/16" O-Ring-1-1/16" Jic Str.	1
V3	Case Drain Of Vibratory Motor (Front) To Port "C" Of Hydraulic Tank	502-01341-91	Hose Assembly 1/4" ID X 84"	1
		298-02173-62	1/4" Swivel Adapter	1
		X7896	1/2" X 1/4" Reducer Bushing	1
		298-06508-86	1/4" X 90° Str. Elbow	1
V4	Port "D" Of Tandem Pump To Port "A" Of Vibratory Motor (Rear)	102-31308-05	Hose Assembly 3/4" ID X 182"	1
		298-08133-86	Adapt 1-1/16" O-Ring	1
		298-08050-86	1-5/16" O-Ring/1-1/16" Jic Str.	1
		298-06605-86	1-1/16" Jic Elbow, 90° (Long)	1
V5	Port "C" Of Tandem Pump To Port "B" Of Vibratory Motor (Rear)	102-31308-05	Hose Assembly 3/4" ID X 182"	1
		298-08133-86	Adapt 1-1/16" O-Ring	1
		298-08050-86	1-5/16" O-Ring/1-1/16" Jic Str.	1
		298-06605-86	1-1/16" Jic Elbow, 90° (Long)	1
V6	Case Drain Of Vibratory Motor (Rear) To Port "F" Of Hydraulic Tank	502-01341-94	Hose Assembly 1/4" ID X 120"	1
		298-02173-62	1/4" Swivel Adapter	1
		X7896	1/2" X 1/4" Reducer Bushing	1
		298-06508-86	1/4" X 90° Str. Elbow	1
V7	Case Drain At Tandem Pump To 90° Elbow At Oil Cooler	102-12933-03	Hose Assembly 3/4" ID X 84"	1
		298-08174-86	O-Ring/3/4" Pipe SWIVEL 90°	1
		298-06526-86	1" NPT/1-1/16" Jic Elbow	1
V8	Charge Pump Inlet At Tandem Pump To Hydraulic Oil Filter	102-11817-01	Hose Assembly 1-1/4" ID X 40"	1
		298-06602-86	1-1/4 NPT/1-1/4" Hose Barb	1
		298-06607-86	1-1/4" Hose Clamp	1
		298-06603-86	O-Ring/1-1/4" Pipe Swivel	1

HYDRAULICS - BRAKE SYSTEM

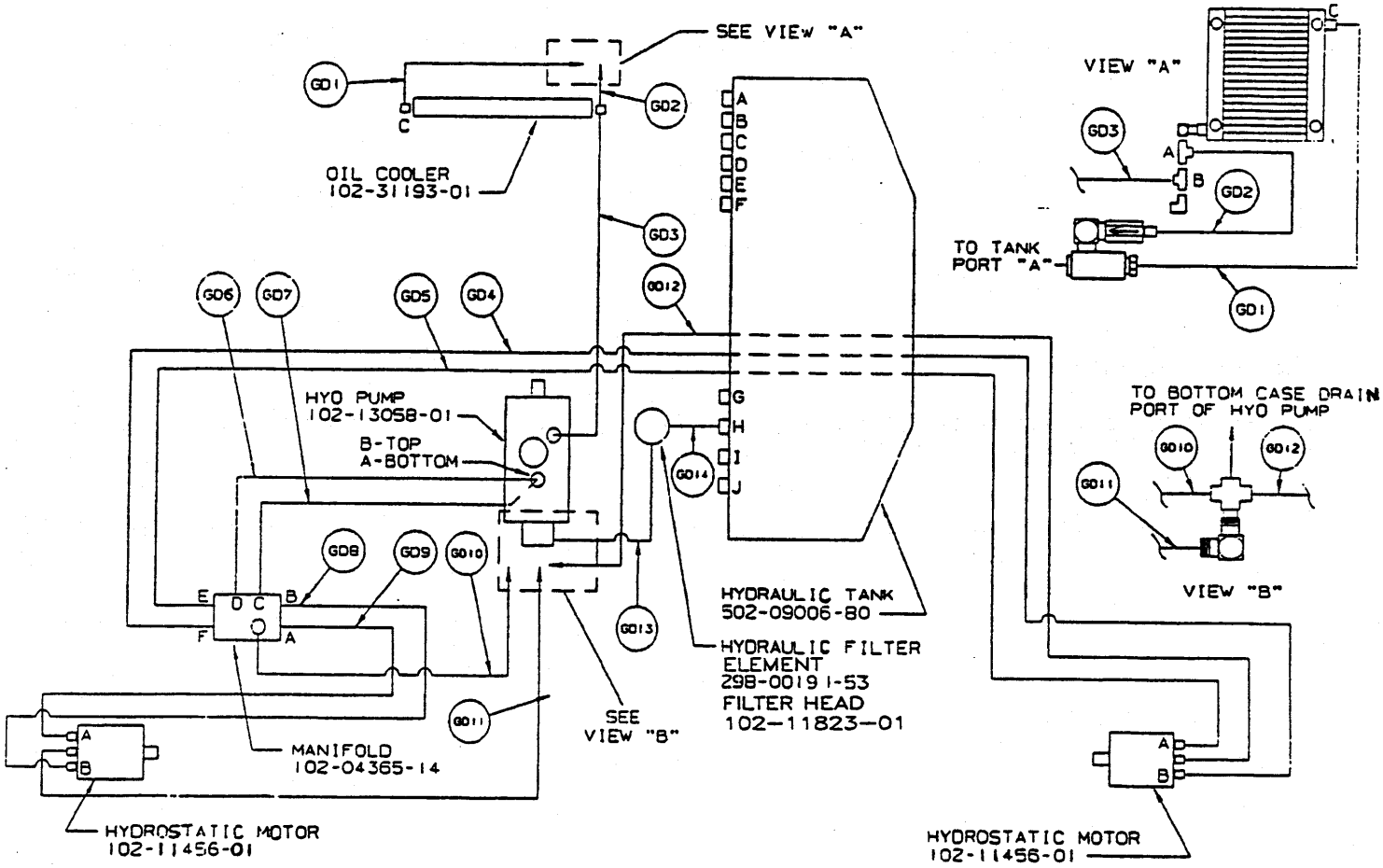
B0737



HYDRAULICS - BRAKE SYSTEM

HYDRAULIC LINE NUMBER	FUNCTION	PART NUMBER	DESCRIPTION	QTY.
B1	Port "C" On Brake Valve To Port "E"	502-01341-86 298-06572-86	Hose Assembly 1/4" ID X 42" 9/16" O-Ring - 7/16" Jic	1 1
B2	Hydraulic Disc Brake (Front) To Port "B" On Brake Valve	102-31248-09 298-08184-86 298-06573-86	Hose Assembly 1/4" ID X 108" Adapt 7/16" O-Ring 7/16 Tee 9/16" O-Ring 7/16" JIC	1 1 1
B3	Hydraulic Disc Brake (Rear) To Port "B" On Brake Valve	102-31248-02 298-08184-86	Hose Assembly 1/4" ID X 120 Adapt O-Ring 7/16" Jic 90°	1 1
B4	Charge Pressure Port Of Hyd Pump To Port "A" Of Brake Valve	102-31248-05 298-08184-86	Hose Assembly 1/4" ID X 36" Fitting	1 2

HYDRAULICS - GROUND DRIVE SYSTEM



HYDRAULICS - GROUND DRIVE SYSTEM

HYD. NO.	LINE FUNCTION	PART NUMBER	DESCRIPTION	QTY.
GD1	Port "C" Of Oil Cooler To Tee In Hydraulic Tank	102-31306-02	Hose Assembly 1"ID X 56"	1
		298-08209-86	1" NPT/1" ID 90° Elbow	1
		298-09070-86	Hose Clamp	2
		298-08196-86	1" Pipe/1" Hose Barb	1
GD2	Tee Fitting "A" At Oil Cooler To Relief Check Valve At Port "A" Of Hyd. Tank	502-08614-88	Hose Assembly 3/4"ID X 34"	1
		298-06571-86	1" X 3/4" NPT Reducing Elbow	1
		298-00181-53	Relief Check Valve	1
		298-02263-62	3/4" Service Tee	1
GD3	Case Drainport Of Hyd. Pump To Tee Fitting "B" At Oil Cooler	502-01350-92	Hose Assembly 3/4"ID X 55"	1
		298-08089-86	90° Adapter	1
		298-17002-86	3/4" Pipe Tee	1
GD4	Port "B' Of Hydro-static Motor (Rear) To Port "F" Of Manifold	102-31309-02	Hose Assembly 3/4"ID X 162"	1
		298-06577-86	90° Adapter	1
		298-09075-86	1-1/16" Jic Adapt/90° Split Flgd	1
		298-08033-86	1" Split Flanged Clamp	2
		398-20000-12	3/8" Lock Washer	4
		102-01594-04	O-Ring	1
		298-00105-93	3/8" UNC X 1-1/4" Capscrew	4
		298-06604-86	1-1/16" Jic/1-1/16" Jic Elbow 90°	1
GD5	Port "A" Of Hydro-static Motor (Rear) To Port "E" Of Manifold	102-31309-02	Hose Assembly 3/4"ID X 162"	1
		298-06577-86	90° Adapter	1
		298-09075-86	1-1/16" Jic Adapt/90° Split Flgd	1
		298-08033-86	1" Split Flanged Clamp	2
		398-20000-12	3/8" Lock Washer	4
		102-01594-04	O-Ring	1
		298-00105-93	3/8" UNC X 1-1/4" Capscrew	4
		298-06604-86	1-1/16" Jic/1-1/16" Jic Elbow 90°	1

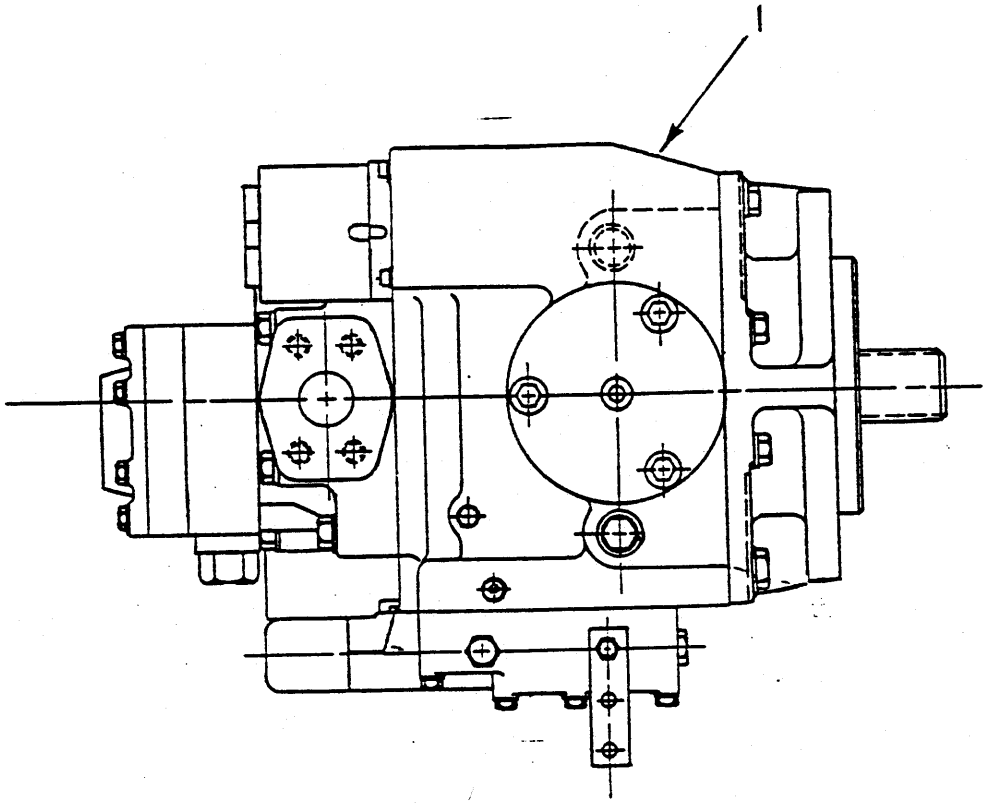
HYDRAULICS - GROUND DRIVE SYSTEM - (Continued)

HYD. NO.	LINE FUNCTION	PART NUMBER	DESCRIPTION	QTY.
GD6	Port "B" Of Hyd. Pump (Top) To Port "D" Of Manifold	102-31311-01	Hose Assembly 1" ID X 30"	1
		298-08033-86	1" Split Flanged Clamp	2
		398-20000-12	3/8" Lock Washer	4
		102-01594-04	O-Ring	1
		298-00105-93	3/8" UNC X 1-1/4"" Capscrew	4
		298-09061-86	90° Split Flg/1-5/16" JIC	1
GD7	Port "A" Of Hyd. Pump (Bottom) To Port "C" Of Manifold	102-31311-02	Hose Assembly 1" ID X 16"	1
		298-08033-86	1" Split Flanged Clamp	2
		398-20000-12	3/8" Lock Washer	4
		102-01594-04	O-Ring	1
		298-00105-93	3/8" UNC X 1-1/4" Capscrew	4
		298-09061-86	90° Split Flg/1-5/16" Jic	1
GD8	Port "B" Of Hydro-Static Motor (Front) To Port "B" Of Manifold	102-31309-01	Hose Assembly 3/4" ID X 76	1
		298-06577-86	90° Adapter	1
		298-09075-86	Adapt 1-1/16"jic / 90° Split Flgd	1
		298-08033-86	1" Split Flanged Clamp	2
		398-20000-12	3/8" Lock Washer	4
		102-01594-04	O-Ring	1
		298-00105-93	3/8" UNC X 1-1/4" Capscrew	4
GD9	Port "A" Of Hydro-Static Motor (Front) To Port "A" Of Manifold	102-31309-01	Hose Assembly 3/4" ID X 76	1
		298-06577-86	90° Adapter	1
		298-09075-86	Adapt 1-1/16"JIC/90° Split Flanged	1
		298-08033-86	1" Split Flanged Clamp	2
		398-20000-12	3/8" Lock Washer	4
		102-01594-04	O-Ring	1
		298-00105-93	3/8" UNC X 1-1/4" Capscrew	4
GD10	From To Port Of Manifold To Pipe Cross Under Hyd. Pump	502-01349-94	Hose Assembly 3/4" ID X 16"	1
		298-19038-86	1/2" Pipe Cross	1
		398-14000-14	1/2" X 3/8" Reducing Bushing	1
		X204251	7/8"-14 O-Ring/1/2" Pipe	1
		298-12001-86	1/2" Pipe Nipple	1

HYDRAULICS - GROUND DRIVE SYSTEM - (Continued)

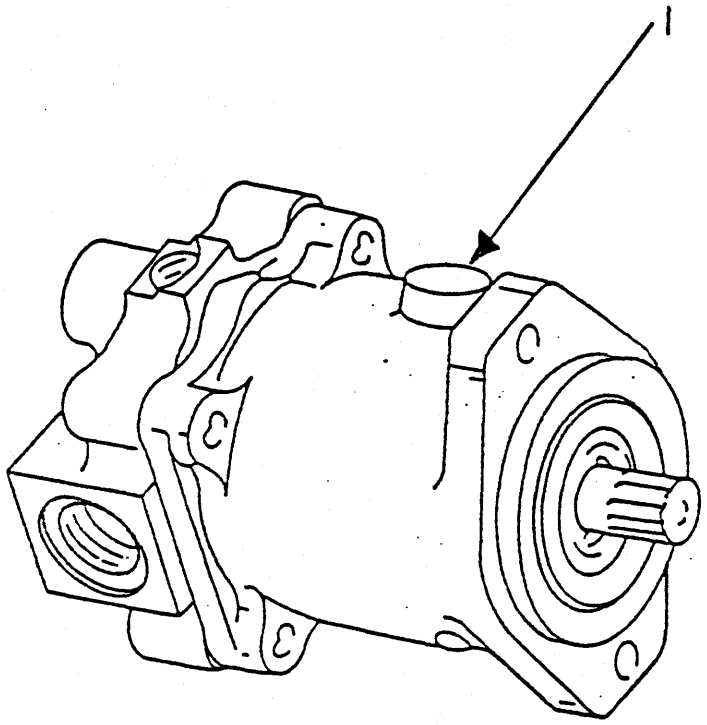
HYD. NO.	LINE FUNCTION	PART NUMBER	DESCRIPTION	QTY.
GD11	Case Drain Of Hydrostatic Motor (Front) To Elbow In Cross Under Hyd. Pump	502-01344-91	Hose Assembly 3/8" ID X 84	1
		298-02126-62	3/4" O-Ring / 3/8" Pipe 90°	1
		298-06507-86	3/4" NPT Elbow	1
		298-12013-86	3/4" X 1/2" Str Reducing Adapt	1
GD12	Port "C" Of Hydro-Static Motor (Rear) To Pipe Cross In Bottom Of Hyd. Pump	502-01344-96	Hose Assembly 3/8" ID X 144"	1
		298-02126-62	3/4" O-Ring / 3/8" Pipe 90°	1
		398-14000-14	1/2" X 3/8" Reducing Bushing	1
GD13	Charge Pump Inlet Of Hyd. Pump To Hydraulic Oil Filter	102-31306-03	Hose Assembly 1" ID X 47"	1
		298-08226-86	1-5/16" O-Ring 1" Hose Barb 90°	1
		298-09070-86	Hose Clamp	2
		298-08210-86	1" NPT/1" Hose Barb 45°	1
GD14	Hydraulic Oil Filter To Port "H" Of Hyd. Tank	102-31306-01	Hose Assembly 1" ID X 28"	1
		298-08196-86	1" Pipe /1 " Hose Barb	1
		298-09070-86	Hose Clamp	2
		298-08210-86	1" NPT/1" Hose Barb 45°	1

HYDRAULICS - GROUND DRIVE SYSTEM - VARIABLE DISPLACEMENT PUMP



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-13058-01	1	Variable Displacement Pump

HYDRAULICS - GROUND DRIVE SYSTEM - HYDROSTATIC MOTOR



ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-11456-1S	2	Hydrostatic Motor

TRACTION DRIVE COMPONENTS - RECOMMENDED "DAILY" TEST EMERGENCY/PARKING BRAKE PROCEDURE

IMPORTANT

TEST EMERGENCY/PARKING BRAKE "DAILY"

In order to prevent any misunderstanding or unnecessary accidents involving the performance of the "Emergency/Parking Brake", REXWORKS recommends the following "DAILY TEST PROCEDURE";

1. Clear Level Test Area Of Personnel And Obstacles.
2. Position Machine On Level Test Area.
3. Turn The Emergency/Parking Brake Switch "ON".
4. Pull Throttle Cable To Full Engine Speed.
5. Stroke Travel Lever Slowly To Full Stroke, And Then Return To Neutral Position.

CAUTION

IF MACHINE HAS MOVED MORE THAN SIX (6) INCHES, THE EMERGENCY/PARKING BRAKE IS NOT OPERATING. REPAIR AND OR ADJUSTMENT IS REQUIRED BY QUALIFIED PERSONNEL.

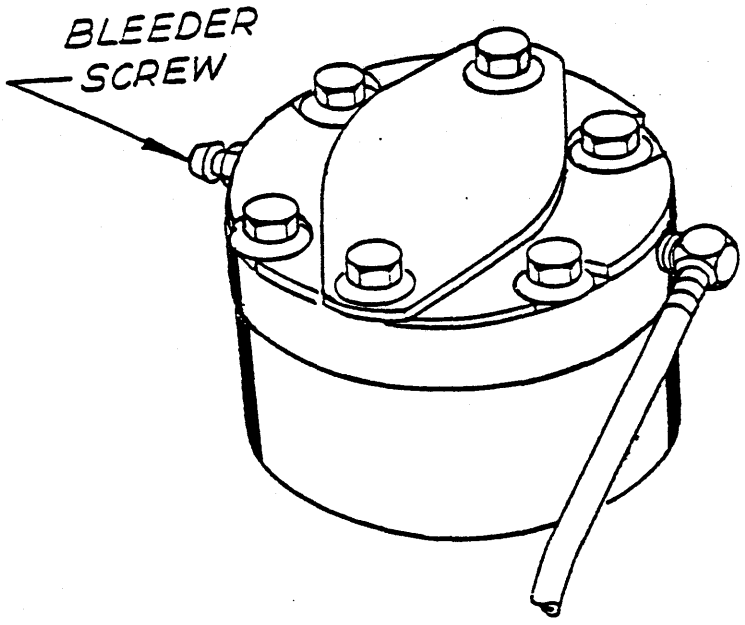
6. Repeat Procedure #3 Thru #5 For Reverse.

TRACTION DRIVE COMPONENTS - RECOMMENDED BRAKE BLEEDING PROCEDURE

The spring applied, hydraulic release, "FAIL SAFE" emergency/parking brakes which are integrated in the dual drum drives require a solid oil stream for "Safe and Efficient Operation".

The following recommended emergency/parking brake bleeding procedure establishes guidelines to bleed air from the system.

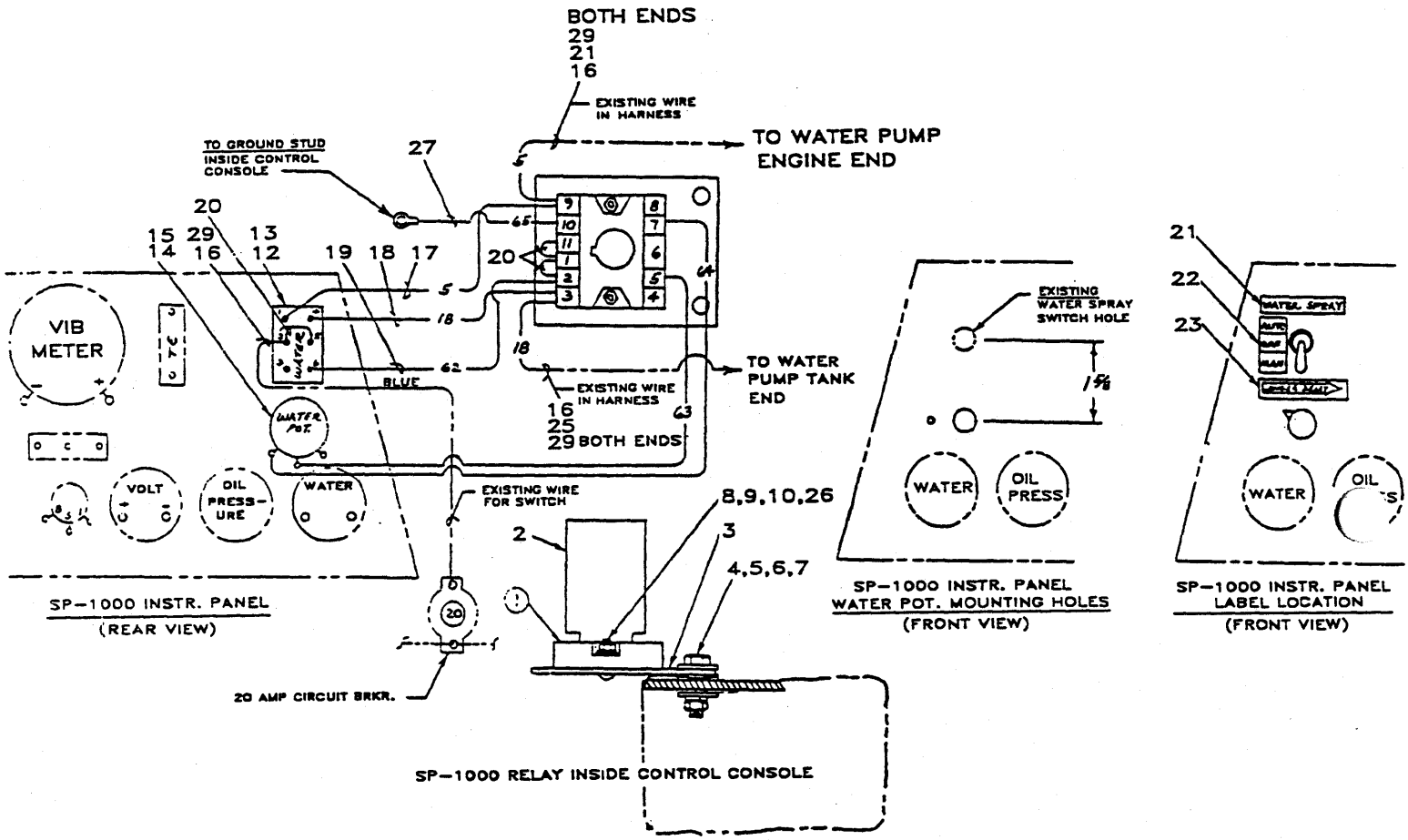
1. Park Machine on a firm level Surface.
2. Return the Forward/Reverse Travel lever to Neutral Position.
3. Turn Ignition Key Switch to "OFF".
4. Block both Drums Securely with Chocks.
5. As shown below, Open Bleed Screw located on Side of Brakes. (2 BRAKES - ONE ON EACH DRUM DRIVE)
6. Place Emergency/Parking Brake Switch in the "OFF" Position.
7. Start Engine.
8. When a Steady Stream of Oil is Passing through the Bleeder, Close the Bleeder Screw by Tightening.



FAIL SAFE BRAKE

INTERMITTENT WATER SPRAY ASSEMBLY

B0738



CAUTION: DISCONNECT NEGATIVE BATTERY CABLE FROM BATTERY OR MACHINE FIRST. RECONNECT ONLY AFTER ASSEMBLY.

INTERMITTENT WATER SPRAY ASSEMBLY

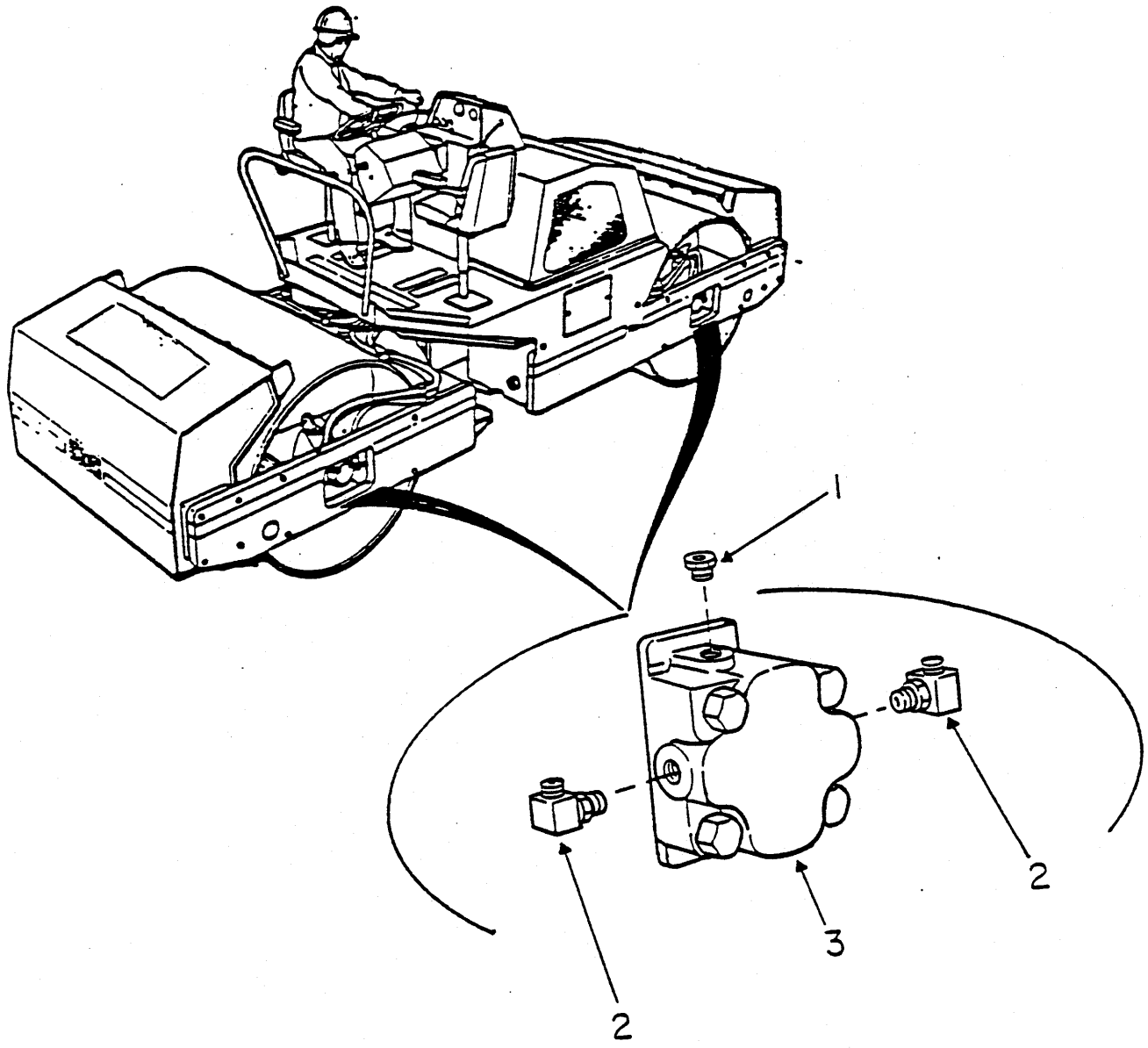
ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-13266-17	1	SOCKET RELAY
2	298-20563-17	1	RELAY-OFF/ON FLASHER
3	102-12113-01	1	MOUNTING PLATE
4	298-00176-93	2	1/4" X 1-1/5" CAPSCREW
5	398-20000-91	6	1/4" CUT WASHER
6	398-20001-25	2	1/4" LOCK WASHER
7	398-11003-47	2	1/4"-20 NUT
8	398-10002-35	2	NO. 6-32X3/4 RHMS
9	398-20000-87	2	NO. 6 CUT WASHER
10	398-11000-15	2	NO. 6-32 HEX NUT
12	298-06564-17	1	SWITCH, TOGGLE
13	298-00052-17	1	SEAL, TOGGLE
14	502-08892-80	1	POT & HARNESS ASSEMBLY
15	298-00084-17	1	KNOB
16	298-26137-17	3	RING TERMINAL
17	502-08891-81	1	WIRE NO. 5
18	502-08891-83	1	WIRE NO. 18
29	502-08891-84	1	WIRE NO. 62
20	502-08891-80	3	JUMPER WIRE
21	102-11005-01	1	LABEL, WATER SPRAY
22	102-12106-01	1	LABEL, WATER SWITCH
23	102-12107-01	1	LABEL, WATER DELAY
24	298-00269-17	1	WIRE MARKER - 5
25	298-00270-17	1	WIRE MARKER - 18
26	398-20000-34	2	NO. 6 LOCK WASHER
27	502-08891-82	1	WIRE NO. 65
29	298-00271-17	1/2'	SHRINK TUBE

SP1000 ASSEMBLY PROCEDURE

1. Install relay socket #1 to mounting plate #3. allow for wire routing so that mounting plate can later be fastened to inside control console. The same holes can be used as for the solenoid inside engine housing.
2. Remove present water spray switch (if installed) from panel after disconnecting wires. Connect wires #5 and #18 to relay socket using new terminals and shrink tube #16 and #29 and markers 24 and 25. put new terminal and shrink on blue wire so that it can be installed on new switch as shown.
3. Cut holes in panel (as shown) and mount pot and knob #14 and #15.
4. Install new switch #12 and #13.
5. Connect all wires as shown in the diagram.
6. Install relay #2 to socket.
7. Fasten mounting plate to console as shown.
8. Remove present water spray label (if installed) and place new labels on panel as shown.

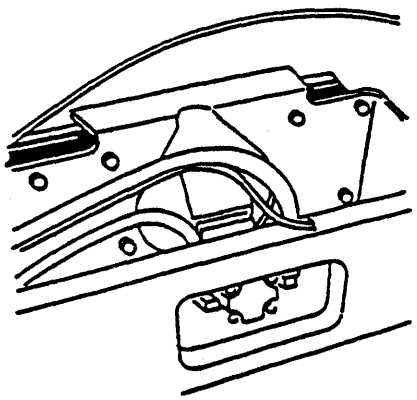
VIBRATION DRIVE COMPONENTS-HYDRAULIC MOTOR -- VIBRATION

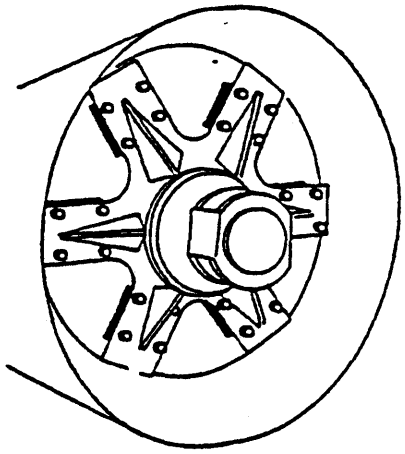
B0421

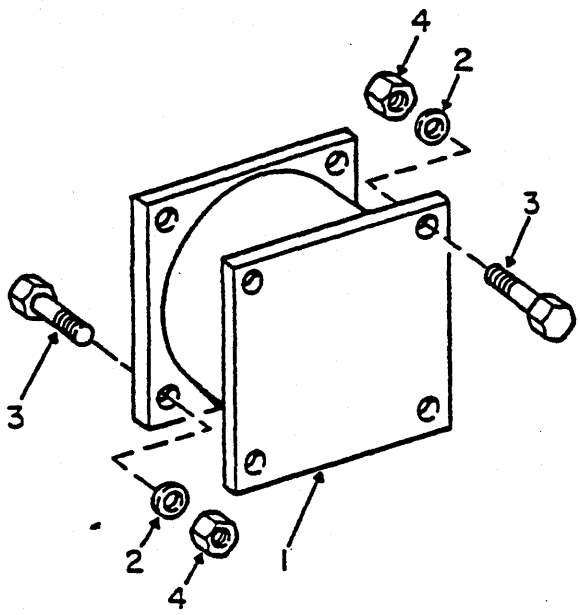


ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	298-02173-62	1	ADAPTER - UNION
2	298-08133-86	2	90DEG ADAPTER
3	102-11898-01	1	HYDRAULIC MOTOR

VIBRATION DRIVE COMPONENTS - RUBBER VIBRATION ISOLATORS

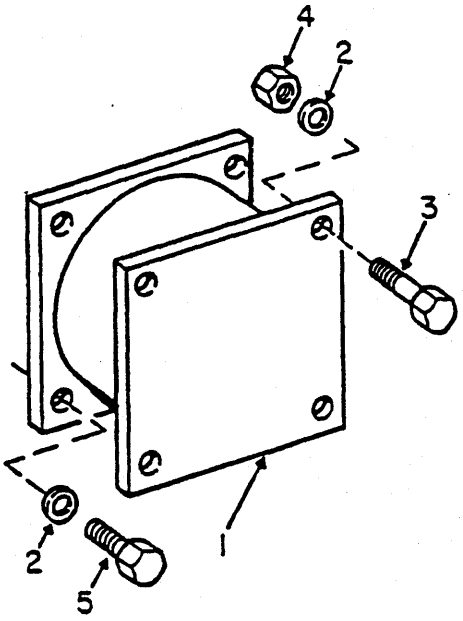






VIBRATOR – MOTOR SIDE

(4 PER ROLL SIDE)



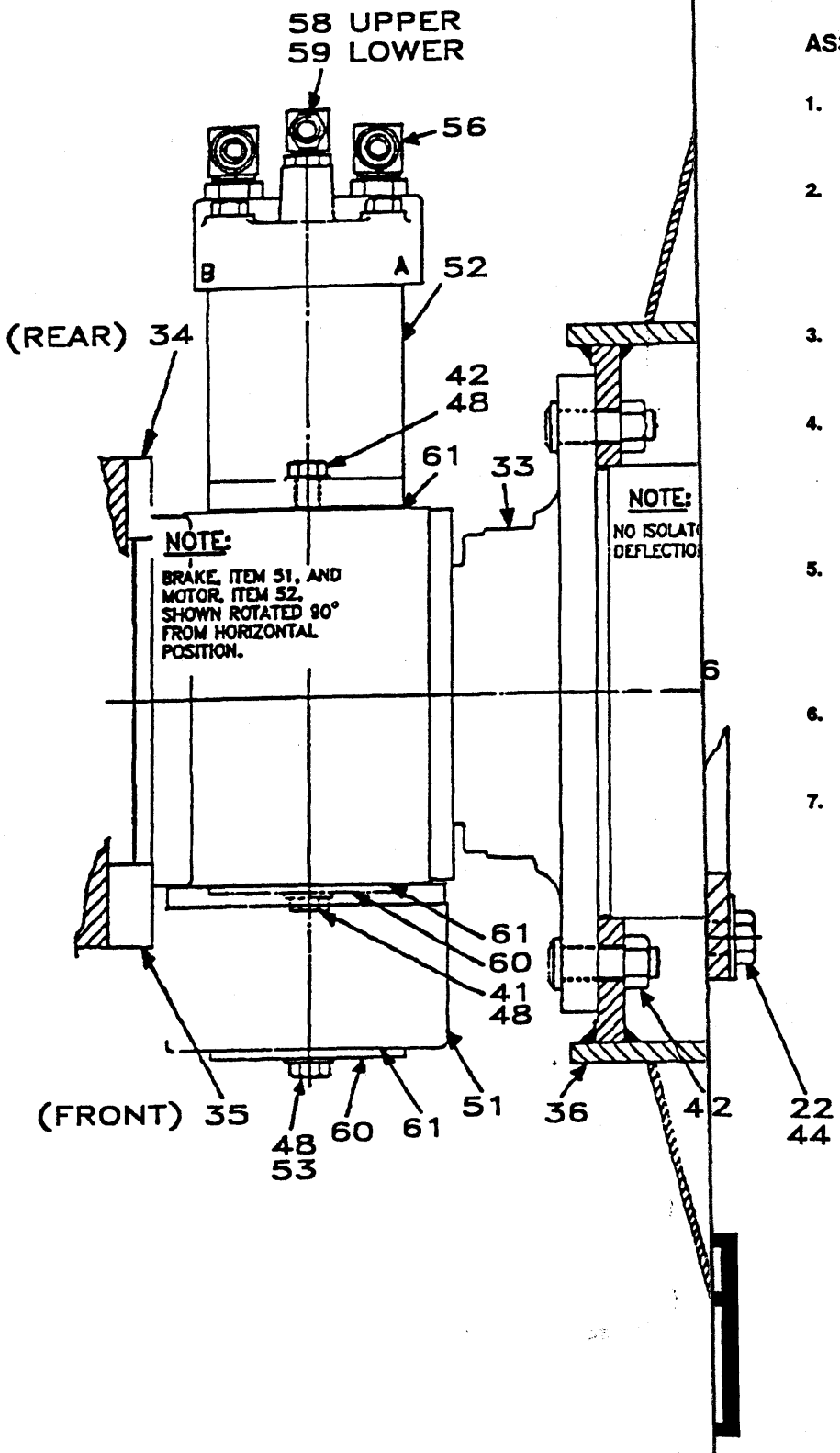
ROLL DRIVE SIDE

(6 PER ROLL SIDE)

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-11608-01	10	ISOLATOR
2	102-12502-01	80	SPECIAL WASHER
3	298-00114-93	56	1/2" X 1-1/2" CAPSCREW
4	298-02010-71	56	LOCKNUT 1/2"
5	398-02002-19	24	1/2" X 1-1/4" CAPSCREW

NOTE: USE LOCTITE #680 WHEN INSTALLING ITEM #5.

VIBRATION DRIVE COMPONE



ASSEMBLY NOTES:

1. AFTER ITEM 5 IS INSTALLED, MAKE SURE WEIGHTS ON INNER SHAFT "A" AND OUTER SHAFT "B" ARE IN THEIR LOWEST POSITION.
2. ASSEMBLE HANDWHEEL ITEM 12 TO ITEM 5 SO THAT THE LUBRICATION FITTING IS IN THE LOWEST POSITION AND THE #1 POSITION, STAMPED ON THE WHEEL, IN THE UPPERMOST POSITION.
3. ASSEMBLY COUPLING HALF ITEM 4 SO THAT THE PUNCHED INDEX MARK (SEE DETAIL DRAWING FOR LOCATION) IS IN THE LOWEST POSITION.
4. WHEN ASSEMBLING THE MOTOR MOUNT ITEM 13, MAKE SURE THE TAPPED HOLE FOR THE MAGNETIC PICKUP ITEM 27 IS UP AND THE #1 STAMPED ON THE HANDWHEEL CAN BE SEEN THRU THE SLOT IN THE MOTOR MOUNT.
5. ASSEMBLY AND ALL ITEMS ARE IDENTICAL FOR FRONT AND REAR ROLLS EXCEPT AS NOTED NEXT TO ITEM NUMBERS IN THE LIST OF COMPONENTS AND ON ROLL ASSEMBLY SKETCHES.
6. PACK CAVITIES AND BEARINGS DESIGNATED WITH SHELL DARINA EP-2 GREASE AT ASSEMBLY.
7. CAPSCREW 43, 50 AND 42 OTHER THAN ISOLATORS, TO BE INSTALLED WITH LOCTITE #271.

VIBRATION DRIVE COMPONENTS - VIBRATORY DRUMS

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	502-06988-80	1	ROLL
2	298-03575-68	1	O-RING
3	298-00403-02	2	SPHERICAL BEARING
4	102-11412-01	1	COUPLING HALF DR
5	502-09489-80	1	SHAFT ASSEMBLY
6	402-00726-02	1	ROLL HUB
7	298-03139-68	2	OIL SEAL
8	502-06991-80	1	ISOLATOR MNT
9	102-31243-01	1	BEARING-RET
10	398-08000-07	1	#1610B ALEMITE
11	102-11608-01	10	ISOLATOR
12	502-20492-80	1	HANDWHEEL & FORCE ADJUSTMENT
13	502-06997-80	1	MOTOR MOUNT VIB DRIVE
14	102-09766-01	1	COUPLING SLEEVE
15	298-03113-68	2	SEAL-HUB
16	298-07532-34	2	SNAP RING-INTERNAL
17	102-11424-01	1	COUPLING EXCITER SHAFT
18	102-11898-01	1	HYDRAULIC MOTOR
19	102-11443-01	1	SPACER
20	102-05476-01	1	FRAME MTG BRKT
21	102-11411-02	4	SPACER
22	298-00042-97	16	3/4" HARDENED WASHER
23	102-11411-01	4	SPACER
24	102-11442-01	1	SPACER
25	102-11441-01	1	SPRING
26	298-07027-08	1	BUSHING
27	298-00103-17	1	MAGNETIC PICK UP
28	298-00404-02	2	BEARING CUP
29	298-00405-02	2	BEARING CONE
30	298-03140-68	2	OIL SEAL
31	398-14005-71	2	3/8" SQ ST PLUG
32	102-31242-01	1	CVR PL
33	102-11447-01	1	PLANET GEAR REDUCER
34	102-31245-01	1	MTG PLATE
35	102-31245-02	1	MTG PLATE
36	502-06993-80	1	DR-SPIDER
38	102-11410-01	*	SHIM .005" THK
39	102-11410-02	*	SHIM .0075" THK
40	102-11410-03	*	SHIM .020" THK

*** = USE AS REQUIRED TO ACHIEVE .002" TO .005" PRELOAD**

VIBRATION DRIVE COMPONENTS - VIBRATORY DRUMS - (Continued)

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
41	398-02002-19	36	1/2" X 1-1/4" CAPSCREW
42	298-00114-93	68	1/2" X 1-1/2" CAPSCREW
43	298-00125-93	8	5/8" X 2" CAPSCREW
44	298-00240-93	16	3/4" X 4-1/2" CAPSCREW ZN PL
45	298-02010-71	56	1/2" LOCKNUT
46	398-11000-44	10	3/4" UNF NUT
47	298-02081-71	1	LOCKNUT
48	298-00039-97	46	1/2" HARDENED WASHER
49	298-00041-97	9	5/8" HARDENED WASHER
50	398-02002-19	36	1/2" X 1-1/4" CAPSCREW
51	102-13342-01	1	DISC BRAKE
52	102-11456-01	1	HYDROSTATIC MOTOR
53	298-00170-93	2	1/2" X 5" CAPSCREW
54	102-11539-01	1	GASKET
55	298-02035-71	4	3/4" UNC NUT
56	298-08133-86	4	90 DEG ADAPTER
57	298-02173-62	1	ADAPTER UNION
58	298-02126-62	1	ELBOW 90 DEG
60	102-11547-01	1	BRAKE END PL
61	102-11546-01	2	GASKET
62	102-11828-01	1	KEY 3/16 X 3/16 X 3/4
63	102-12750-01	80	1/2" SPEC HARD WASHER
64	102-12325-01	**	SHIM

** = USE AS REQUIRED TO ACHIEVE .06" TO .12" END PLAY

CUSTOMER NOTES

VIBRATION DRIVE COMPONENTS - DRUM DRIVE PLANETARY GEAR BOX - TRACTION ONLY

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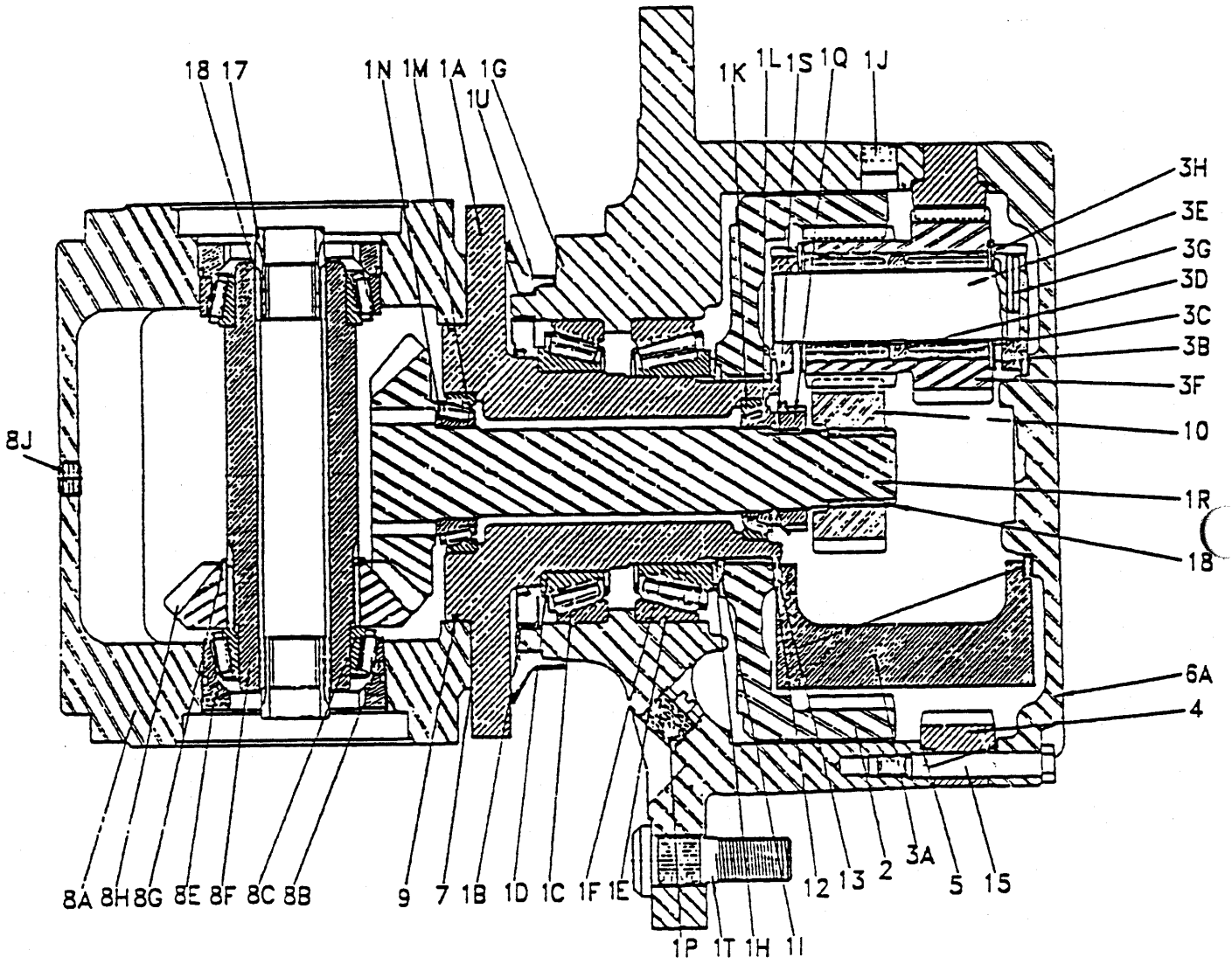

VIBRATION DRIVE COMPONENTS - DRUM DRIVE PLANETARY GEAR BOX - TRACTION ONLY

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
	102-11447-01		PLANET GEAR REDUCER
1	102-11447-11	1	HUB SPINDLE SUB ASSEMBLY CONSISTING OF ITEMS 1A THRU 1U.
1A	102-11447-12	1	SPINDLE
1B	102-11447-13	1	SEAL
1C	102-11447-14	1	BEARING CUP
1D	102-11447-15	1	BEARING CONE
1E	102-11447-16	1	BEARING CUP
1F	102-11447-17	1	BEARING CONE
1G	102-11447-18	1	HUB
1H	102-11447-19	1	SPACER
1I	102-11447-20	1	RETAINING RING
1J	102-11447-21	1	PIPE PLUG
1K	102-11447-22	1	BEARING CUP
1L	102-11447-23	1	BEARING CONE
1M	102-11447-24	1	BEARING CUP
1N	102-11447-25	1	BEARING CONE
1P	102-11447-26	2	MAGNETIC PIPE PLUG
1Q	102-11447-27	1	LOCKNUT
1R	102-11447-28	1	STEM PINION
1S	102-11447-29	1	LOCK WASHER
1T	102-11447-30	10	STUD
1U	102-11447-31	1	SEAL BOOT
2	102-11447-32	1	INTERNAL GEAR
3	102-11447-33	1	CARRIER ASSY. CONSISTING OF ITEMS 3A THRU 3H.
3A	102-11447-34	1	CARRIER
3B	102-11447-35	6	TRUST WASHER
3C	102-11447-36	84	NEEDLE ROLLER
3D	102-11447-37	3	SPACER
3E	102-11447-38	3	PINION SHAFT
3F	102-11447-39	3	CLUSTER GEAR
3G	102-11447-40	3	ROLL PIN
3H	102-11447-41	6	THRUST WASHER

VIBRATION DRIVE COMPONENTS - DRUM DRIVE PLANETARY GEAR BOX - TRACTION ONLY - (Continued)

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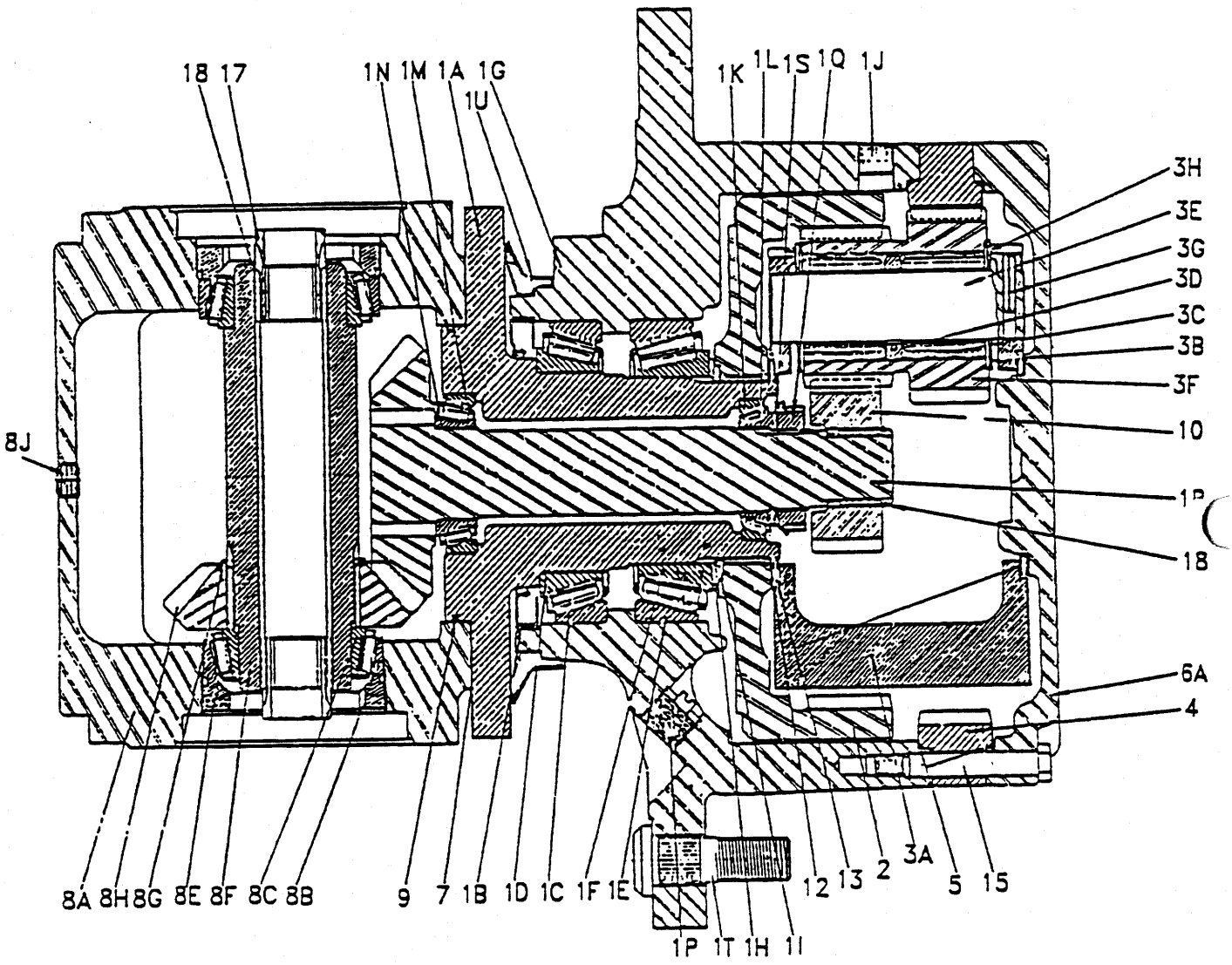

VIBRATION DRIVE COMPONENTS - DRUM DRIVE PLANETARY GEAR BOX - TRACTION ONLY - (Continued)

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
4	102-11447-42	1	RING GEAR
5	102-11447-43	2	O-RING
6	102-11447-44	1	COVER SUB ASSY. CONSISTING OF ITEMS 6A THRU 6C.
6A	102-11447-45	1	COVER
6B	102-11447-46	1	I.D. PLATE
6C	102-11447-47	4	DRIVE SCREW
7	102-11447-48	1	SHIM GASKET SET
8	102-11447-49	1	RIGHT ANGLE BOX S/A CONSISTING OF ITEMS 8A THRU 8K.
8A	102-11447-50	1	BOX
8B	102-11447-51	2	BEARING CUP
8C	102-11447-52	2	BEARING CONE
8D	102-11447-53	2	SET SCREW
8E	102-11447-54	2	NUT
8F	102-11447-55	1	CROSS SHAFT
8G	102-11447-56	1	SNAP RING
8H	102-11447-57	1	BORE TYPE BEVEL GEAR
8J	102-11447-58	3	PIPE PLUG
8K	102-11447-59	1	O-RING PIPE PLUG
9	102-11447-60	1	O-RING
10	102-11447-61	1	INPUT GEAR
12	102-11447-62	4	THRUST WASHER
13	102-11447-63	2	THRUST BEARING
14	102-11447-64	8	BOLTS
15	102-11447-65	4	SHOULDER BOLT
16	102-11447-66	10	SOCKET CAP SCREW
17	102-11447-67	2	COUPLING ADAPTER
18	102-11447-68	3	RETAINING RING

PUMP DRIVE ASSEMBLY - DRIVE GEAR BOX FOR (2) HYDRAULIC PUMPS

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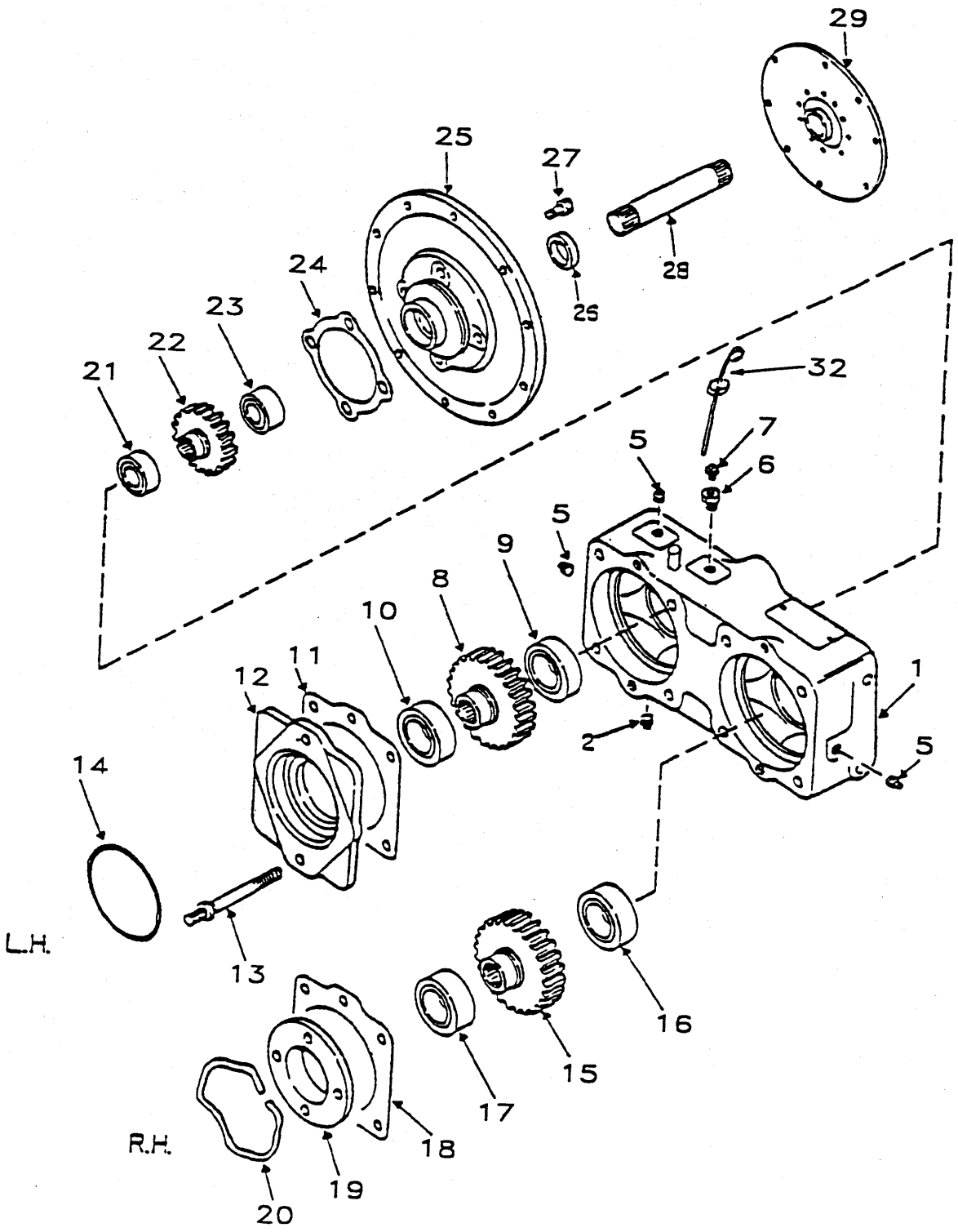

PUMP DRIVE ASSEMBLY - DRIVE GEAR BOX FOR (2) HYDRAULIC PUMPS

ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
	102-11460-01		GEAR PUMP ASSEMBLY
1	102-11460-15	1	HSG, DBL PUMP
2	102-11460-16	1	PLUG, MAGNETIC
5	102-11460-19	3	PLUG, PIPE
6	102-11460-20	1	BUSHING, REDUCER
7	102-11460-21	1	BTHR, 1-5 PSI
8	102-11460-24	1	GEAR 32T
9	102-11460-25	1	BEARING
10	102-11460-26	1	BEARING
11		1	FORMED-IN PLACE GASKET
12	102-11460-36	1	ADAPTER, PUMP
13	298-00256-93	2	CAPSCREW
14	298-03144-68	1	O-RING
15	102-11460-28	1	GEAR 32T
16	102-11460-25	1	BEARING
17	102-11460-26	1	BEARING
18	102-31495-01	1	GASKET
19	102-11460-41	1	ADAPTER PUMP
20	102-11460-43	1	WAVE SPRING
21	102-11460-26	1	BEARING
22	102-11460-28	1	GEAR 32T
23	102-11460-25	1	BEARING
24	102-11460-47	1	GASKET
25	102-11460-45	1	HOUSING FLYWHEEL
26	102-11460-46	1	OIL SEAL
27	102-11460-49	4	CAPSCREW
28	102-11460-50	1	DRIVE SHAFT
29	102-11460-51	1	DRIVE PLATE ASSEMBLY
30	298-00284-93	8	12 PT CAP SCREW
31	102-31790-01	1	PILOT BUSHING
32	102-11460-58	1	DIP STICK

PREPARATION FOR PROLONGED OPEN STORAGE & START-UP AFTER STORAGE OF A VIBRATORY ROLLER

SUBJECT: Preparation for prolonged open storage and subsequent start-up of Vibratory Rollers.

PURPOSE: To prevent storage deterioration and insure proper startup.

This Instruction Bulletin provides recommended preparation procedures for prolonged open storage and start-up of Vibratory Rollers on rental, consignment, in Distributor inventory or Customer fleets. Prolonged or extended storage is intended to cover situations of more than 30 days of inactivity including seasonal shutdowns.

GENERAL INSTRUCTIONS FOR STORAGE PREPARATION

1. Inspect machine for leaks and damage. Repair as necessary.
2. Drain all water tanks and systems.
3. Drain and refill all lubricants if beyond the machine lube chart change interval midpoint, or if the time interval is unknown.
4. Check all reservoir/systems for proper covers/caps and seals.
5. Operate all controls to check for proper function.
6. Clean machine prior to storage.

OIL CHANGE PROCEDURES

Oil in unfiltered sumps such as roll sumps, planetary wheel drives, differentials and drum drive should be drained immediately after the machine has been in operation and the lubricant is at normal operating temperatures. The normal wear particles and other contaminants in the oil will be in suspension and when drained, will be removed.

To assure complete drainage of oil, orient the machine to get all residual oil out. (Example: a slight sideways slope will aid full drainage of the roll bath sump).

Replace lubricants to proper level.

PERIODIC CARE DURING EXTENDED STORAGE

After the machine has been prepared for storage as noted above and after it has been idle for a period of 30 days, it should be restarted and operated for about 30 minutes or until the machine has reached operating temperature. All systems except the water spray system, should be operated and checked for proper function. This will assure a redistribution of the lubricant throughout the system and minimize deterioration.

NOTE

FAILURES DUE TO LACK OF PROPER MAINTENANCE ARE NOT CONSIDERED WARRANTABLE.

GENERAL INSTRUCTIONS FOR RESTART AFTER PROLONGED STORAGE

1. Check machine for leaks, loose fittings, wiring and controls. Repair as necessary.

2. Change all oils before returning to service if improperly prepared for storage and/or depending on the length or environmental conditions of storage.

3. Even when machine has been prepared for storage, all greased lubrication points must be serviced at start-up.

4. When all checks have been completed, put all controls in neutral and start engine. Observe all gauges after start-up for proper range. Do not run roll shaft (vibratory circuit) until drum has rotated two or more revolutions. Special attention should be paid to the roll shaft VPM gauge. Maximum rated frequency is listed below for all models. **DO NOT OVER-SPEED ROLL SHAFT**.

MODEL	MAXIMUM VPM
SP400	3,000
SP600 & SP600D	1,800
SP600PD	1,700
SP600D & SP600PD (SILVER SERIES)	1,800
SP700	2,000
SP848, SP848B & SP848B (SILVER SERIES)	1,800
SP848PD & SP848PD (SILVER SERIES)	1,700
SP848D & SP848D (SILVER SERIES)	2,000
SP848DH & SP848DH (SILVER SERIES)	1,700
SP900, SP910	2,000
SP1000 & SP1000 (SILVER SERIES)	2,400

NOTE

FAILURES DUE TO LACK OF PROPER MAINTENANCE ARE NOT CONSIDERED WARRANTABLE.

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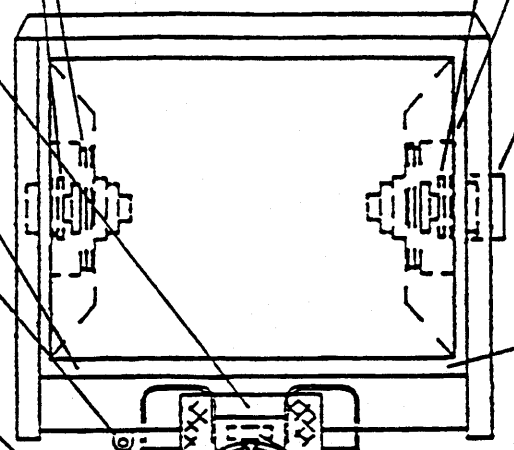


NOTE

REFER TO MACHINE LUBRICATION CHART FOR PROPER LUBE SPECIFICATIONS.

ROLL SUMP
FILL TO PROPER LEVEL. DRAIN AND REFILL IF TIME INTERVAL REQUIRES.

VIBRATORY SHAFT DRIVE COUPLING
PACK WITH GREASE.

ARTICULATION JOINT AREA
ADD GREASE-4 POINTS.

*** SPRAY BAR NOZZLES**
CHECK FOR BLOCKAGE & ADEQUATE SPRAY.

STEERING CYL END JOINTS
ADD GREASE-2 POINTS.

HYDRAULIC RESERVOIR
FILL TO PROPER LEVEL. DRAIN & REFILL IF TIME INTERVAL REQUIRES.

WHEEL ENDS
CHECK LEVEL. DRAIN & REFILL IF TIME INTERVAL REQUIRES.

DIFFERENTIAL
CHECK LEVEL. DRAIN AND REFILL IF TIME INTERVAL REQUIRES.

FUEL FILTER
CHANGE IF TIME INTERVAL REQUIRES.

ENGINE OIL FILTER
CHANGE FILTER WITH ENGINE OIL CHANGE.

AIR FILTER MINDER
SERVICE AIR CLEANER IF INDICATOR SHOWS RED.

HYDRAULIC PUMP DRIVE LINE
ADD GREASE-3 POINTS.

FUEL TANK
FILL WITH #2 DIESEL FUEL.

UNIVERSAL JOINT & SLIP YOKE
ADD GREASE-3 POINTS (FOR MODELS WITH DRUM DRIVE ONLY).

PNEUMATIC ISOLATORS
CHECK PRESSURE, 22 TO 25 PSI ON 600 & 700 MODELS, 31 TO 34 PSI ON ALL OTHER MODELS. VALVE CAP REQUIRED ON VALVE STEM.

ROLL DRIVE GEAR BOX & PLANETARY DRIVE. CHECK LEVEL. DRAIN AND REFILL IF TIME INTERVAL REQUIRES.

SOLID BLOCK ISOLATORS
CHECK CONDITION & TIGHTNESS OF MOUNTING HARDWARE ON 400 & 1000 MODELS.

ROLL SCRAPERS
CHECK CONDITION OF RUBBER ROLL SCRAPERS OR COCOMATS (IF EQUIPPED).

BATTERY
CHECK ELECTROLYTE. FILL BATTERY. CLEAN & TIGHTEN TERMINALS.

EMERGENCY/PARKING BRAKE
CHECK FOR PROPER FUNCTION. BRAKE MUST HOLD MACHINE STATIONARY AT FULL ENGINE POWER.

*** WATER TANKS**
FILL WITH CLEAN WATER. CLEAN WATER FILTER.

TIRES
CHECK INFLATION-SEE MACHINE LUBRICATION CHART FOR PROPER PRESSURE. VALVE CAP REQ'D ON VALVE STEM. USE PROPER GAUGE. SOME MODELS USE CHLORIDE BALLAST.

ENGINE LUBE OIL
DRAIN & REFILL PER ENGINE MFG'S. SPECIFICATIONS.

BELTS
CHECK FOR PROPER BELT TENSION.

RADIATOR COOLANT
CHECK LEVEL. FILL WITH 50% WATER & 50% ETHYLENE GLYCOL. CHECK FOR LEAKS. CLEAN CORE.

* = APPLIES ONLY AT START-UP. WHEN PREPARED FOR STORAGE, WATER TANKS AND SYSTEMS SHOULD BE DRAINED.

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
602-3882	ASSY DWG	23	31	1
		27	28	1
2556-10	5/8 IN AEROQUIP HOSE	35	26	2
X204135	1/2 BALL KNOB	25	22	2
X204251	ADAPTER STR.	55	14	1
X7896	1/2 X 1/4 RED BUSH	35	8	2
102-03701-01	HOSE ASSEMBLY	23	5	3
102-03701-19	HOSE ASSEMBLY 1/2" ID X 54"	23	4	2
102-05476-01	FRM MTG BRKT	18	2	1
		105	20	1
102-06438-01	SPRAY NOZZLE	49	5	8
102-06438-02	11/16" HEX BODY	49	5A	1
102-06438-03	13/16" HEX CAP	49	5B	1
102-06438-04	STRAINER	49	5C	1
102-06438-05	ORIFICE TIP	49	5D	1
102-06440-01	WATER PUMP	41	9	1
		43	9	1
		79	28	2
102-06440-11	SCREW	45	1	3
102-06440-12	END COVER	45	2	1
102-06440-13	GASKET	45	3	1
102-06440-14	IMPELLER	45	4	1
102-06440-15	SCREW CAM	45	5	1
102-06440-16	CAM	45	6	1
102-06440-17	SEAL	45	7	1
102-06440-18	BODY	45	8	1
102-06440-19	SLINGER	45	9	1
102-06440-20	SCREW	45	10	2
102-06440-21	MOTOR	45	11	1
102-06440-22	REPAIR-KIT	45	12	1
102-07766-01	BOLT-BATT HOLD DOWN	73	3	2
102-08085-01	TAPE SAFTY WALK	13	1	16-3/4
		15	1	16-3/4
102-08523-06	BATTERY CABLE - 42"	73	9	1
		80	48	1
102-08523-07	BATTERY CABLE	56	66	1
		80	49	1
102-08899-01	U BOLT	41	16	2
		43	16	2
102-09100-03	QUICKEDGE TRIM 10 IN	23	33	1
		27	30	1
102-09100-04	QUICK EDGE TRIM 7 IN	25	24	2
102-09149-02	HORN	27	25	1
		79	22	1
102-09149-04	BRACKET FOR HORN	27	26	1
102-09220-01	LABEL LIGHTS	69	12	1
102-09222-01	THROTTLE DECAL	13	17	1
		15	17	1
102-09236-01	HYDRAULIC VALVE	23	1	1
102-09282-01	SEAT 848/910848D1000	33	1	2
102-09282-11	SEAT CUSHION	33	4	2
102-09282-12	SEAT BACK	33	5	2
102-09282-13	ARM RESTS (RH & LH)	33	6	4
102-09282-14	SEAT (ONLY)	33	7	2

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
102-09512-01	LABEL-WATER	13	3	2
		15	3	2
102-09623-01	SEAT BELT KIT	51	2	2
102-09754-02	CROSS SHAFT SGL LEVE	31	17	1
102-09766-01	COUPLING SLEEVE	105	14	1
102-09913-04	ROD-SWITCH	27	12	1
		39	12	1
102-10090-01	LABEL-START	13	32	1
		15	32	1
		29	18	1
102-10288-01	SPECIAL STUD	23	10	1
102-10299-01	LOCK-POSITION	23	13	1
102-10454-01	COMPRESSION SPRING	23	17	1
102-10672-01	COVER-STEERING COL	23	25	1
102-10768-01	DIESEL DECAL	13	8	1
		15	8	1
102-10801-01	MANUAL HOLDER	13	22	1
		15	22	1
102-10802-01	MANUAL HOLDER DECAL	13	7	1
		15	7	1
102-10956-01	LABEL-HYD OIL-SP400	13	19	1
		15	19	1
102-10982-01	SPECIAL NUT-HORN	27	27	1
102-11003-01	LABEL-HORN-SP400	13	10	1
		15	10	1
102-11005-01	LABEL-WATER SPRAY	13	28	1
		15	28	1
		29	16	1
		101	21	1
102-11143-01	LABEL-VIB MANUAL	13	24	2
		15	24	2
102-11145-01	LABEL-VIBRATOR AUTO	13	30	1
		15	30	1
		29	30	1
102-11159-01	SERIAL NUMBER PLATE	13	15	1
		15	15	1
102-11259-01	CONSOLE COVER	23	26	1
102-11382-01	REX QUALITY DECAL	13	14	2
		15	14	2
102-11410-01	SHIM	105	38	
102-11410-02	SHIM	105	39	
102-11410-03	SHIM	105	40	
102-11411-01	SPACER-1000	18	4	4
		105	23	4
102-11411-02	SPACER-1000	105	21	4
102-11412-01	CPLG HALF DR	105	4	1
102-11424-01	CPLG EXCITER SHAFT	105	17	1
102-11425-01	TOWING DECAL	13	12	2
		15	12	2
102-11441-01	SPRING	105	25	1
102-11442-01	SPACER	105	24	1
102-11443-01	SPACER	105	19	1
102-11447-01	PLANET GEAR REDUCER	105	33	1
102-11447-11	HUB SPINDLE SUB ASSEMBLY	109	1	1

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
102-11447-12	SPINDLE	109	1A	1
102-11447-13	SEAL	109	1B	1
102-11447-14	BRG. CUP	109	1C	1
102-11447-15	BRG. CONE	109	1D	1
102-11447-16	BRG. CUP	109	1E	1
102-11447-17	BRG. ONE	109	1F	1
102-11447-18	HUB	109	1G	1
102-11447-19	SPACER	109	1H	1
102-11447-20	RETAINING RING	109	1I	1
102-11447-21	PIPE PLUG	109	1J	1
102-11447-22	BRG. CUP	109	1K	1
102-11447-23	BRG. CONE	109	1L	1
102-11447-24	BRG. CUP	109	1M	1
102-11447-25	BRG. CONE	109	1N	1
102-11447-26	MAGNETIC PIPE PLUG	109	1P	2
102-11447-27	LOCKNUT	109	1Q	1
102-11447-28	STEM PINION	109	1R	1
102-11447-29	LOCKWASHER	109	1S	1
102-11447-30	STUD	109	1T	10
102-11447-31	SEAL BOOT	109	1U	1
102-11447-32	INTERNAL GEAR	109	2	1
102-11447-33	CARRIER ASSY.	109	3	1
102-11447-34	CARRIER	109	3A	1
102-11447-35	THRUST WASHER	109	3B	6
102-11447-36	NEEDLE ROLLER	109	3C	84
102-11447-37	SPACER	109	3D	3
102-11447-38	PINION SHAFT	109	3E	3
102-11447-39	CLUSTER GEAR	109	3F	3
102-11447-40	ROLL PIN	109	3G	3
102-11447-41	THRUST WASHER	109	3H	6
102-11447-42	RING GEAR	111	4	1
102-11447-43	O-RING	111	5	2
102-11447-44	COVER SUB ASSEMBLY	111	6	1
102-11447-45	COVER	111	6A	1
102-11447-46	I.D. PLATE	111	6B	1
102-11447-47	DRIVE SCREW	111	6C	4
102-11447-48	SHIM GASKET SET	111	7	1
102-11447-49	RIGHT ANGLE BOX	111	8	1
102-11447-50	BOX	111	8A	1
102-11447-51	BRG. CUP	111	8B	2
102-11447-52	BRG. CONE	111	8C	2
102-11447-53	SET SCREW	111	8D	2
102-11447-54	NUT	111	8E	2
102-11447-55	CROSS SHAFT	111	8F	1
102-11447-56	SNAP RING	111	8G	1
102-11447-57	BORE TYPE BEVEL GEAR	111	8H	1
102-11447-58	PIPE PLUG	111	8J	3
102-11447-59	O=RING PIPE PLUG	111	8K	1
102-11447-60	O-RING	111	9	1
102-11447-61	INPUT GEAR	111	10	1
102-11447-62	THRUST WASHER	111	12	4
102-11447-63	THRUST BEARING	111	13	2
102-11447-64	BOLT	111	14	8
102-11447-65	SHOULDER BOLT	111	15	4

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
102-11447-66	SOCKET CAP SCREW	111	16	10
102-11447-67	COUPLING ADAPTOR	111	17	2
102-11447-68	RETAINING RING	111	18	3
102-11456-01	HYDROSTATIC MOTOR	106	52	1
102-11456-1S	REBLT HYD. MOTOR	97	1	2
102-11457-01	BALL STUD-1000	85	8	2
102-11458-01	BALL JOINT SPACER	85	9	2
102-11459-01	SOFT SHIM-1000	85	10	4
102-11460-01	2-PUMP GC	55	32	1
102-11460-15	HSG, DBL PUMP	113	1	1
102-11460-16	PLUG, MAGNETIC	113	2	1
102-11460-19	PLUG, PIPE	113	5	3
102-11460-20	BUSHING,REDUCER	113	6	1
102-11460-21	BTHR,1-5 PSI	113	7	1
102-11460-24	GEAR 32T	113	8	1
102-11460-25	BEARING	113	9	1
		113	16	1
		113	23	1
102-11460-26	BEARING	113	10	1
		113	17	1
		113	21	1
102-11460-28	GEAR 32T	113	15	1
		113	22	1
102-11460-36	ADAPTER,PUMP	113	12	1
102-11460-41	ADAPTER PUMP	113	19	1
102-11460-43	WA WAVE SPR	113	20	1
102-11460-45	HOUSING FLYWHEEL	113	25	1
102-11460-46	OIL SEAL	113	26	1
102-11460-47	O RING	113	24	1
102-11460-49	CAP SCREW	113	27	4
102-11460-50	DRIVE SHAFT	113	28	1
102-11460-51	ASM PLT DR	113	29	1
102-11460-58	DIP STICK	113	32	1
102-11484-01	SPRAY BAR-1000	37	2	2
		49	1	2
102-11486-01	HINGE 5X5 BUTT	21	21	4
102-11489-01	WARN DEC FORCE ADJ	13	23	2
		15	23	2
102-11539-01	GASKET	106	54	1
102-11546-01	GASKET	106	61	2
102-11547-01	BRAKE END PL	106	60	1
102-11605-01	CTRL CABLE	39	11	1
102-11608-01	ISOLATOR	103	1	10
		105	11	10
102-11609-01	HOSE BRKT	23	27	1
		27	21	1
102-11637-01	STEERING LOCK LINK	19	1	1
102-11638-01	STEERING LOCK LINK	19	2	2
102-11647-01	G C LABEL	13	16	3
		15	16	3
102-11648-01	BRAKE INST. LABEL	13	11	2
		15	11	2
102-11649-01	TRANSPORT LABELSP100	13	2	4
		15	2	4

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
102-11670-01	SHIM	35	31	4
102-11729-01	HINGE BACK UP PLATE	21	20	4
102-11809-01	TANDEM PUMP	55	2	1
102-11813-01	AMPL.CHHANGING DECAL	13	21	2
		15	21	2
102-11817-01	SUCTION HOSE	55	4	1
102-11823-01	FILTER HEAD	35	29	1
102-11828-01	KEY 3/16X3/16X3/4	106	62	1
102-11830-01	EXHAUST PIPE SUPPORT	57	10	1
102-11842-01	PICK UP GAP LABEL	13	36	1
		15	36	1
102-11898-01	GEAR MOTOR M31-1 1/4	102	3	1
		105	18	1
102-11937-01	ORIFICE PLUG	41	6	1
		43	6	1
102-11938-01	ORIFICE HOLDER	41	7	1
		43	7	1
102-11970-01	IN-TANK STRAINER	35	37	1
102-11971-01	SOLENOID VALVE	27	14	1
		79	14	1
102-11973-01	BRAKE VALVE MNTG PLT	27	32	2
102-11980-01	BRKER MNTG PLATE	25	20	1
		29	15	1
102-12106-01	LABEL-WATER SWITCH	101	22	1
102-12107-01	LABEL WATER DELAY	101	23	1
102-12113-01	MOUNTING PLATE	101	3	1
102-12247-01	WIND DEFELECTOR LH	37	11	1
102-12247-02	WIND DEFLECTOR RH	37	12	1
102-12258-01	LAMP ASSY 12V	69	1	4
		79	29	4
102-12319-01	BRKT SWITCH (848)	39	15	1
102-12325-01	STEEL SHIM	106	64	
102-12502-01	WASHER SPEC HARD	103	2	80
102-12530-01	ROLL SUMP DECAL	13	20	2
		15	20	2
102-12598-01	LOUVER ASSY	37	13	1
102-12750-01	1/2" SPEC HARD WASHER	106	63	80
102-12756-01	LIMIT SWITCH ARM	39	5	1
102-12757-01	CONTROL LEVER	39	2	1
102-12758-01	ROD	39	4	1
102-12759-01	NON-LINEAR CONTROL	27	5	1
		39	1	1
102-12888-01	PLUG, SPECIAL 1"	80	53	2
102-12958-01	HANDLE	33	8	2
102-13009-01	AIR CLEANER ASSEMBLY	59	7	1
102-13009-11	CLAMP	59	16	1
102-13009-12	BAFFLE	59	18	1
102-13009-13	PRIMARY ELEMENT	59	14	1
102-13009-15	SAFETY ELEMENT	59	15	1
102-13009-16	NUT ASSEMBLY	59	17	1
102-13038-01	TAPE STRIPING	13	9	30
		15	9	30 FT
102-13042-01	EXHAUST STACK	57	5	1
102-13046-01	TUBE-FUEL RETURN	56	63	1

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
102-13051-01	AIR SCOOP COVER	21	8	1
102-13057-01	GEAR PUMP	55	22	1
		87	1	1
102-13058-01	VARIABLE DISPL. PUMP	55	17	1
		96	1	1
102-13089-01	HOSE - UPPER RADIATOR	55	40	1
102-13110-01	TUBE	59	10	1
102-13112-01	HOSE ASSEMBLY 72"	56	75	1
		58	7	1
102-13121-01	ENGINE VIB DECAL	13	33	1
		15	33	1
		29	20	1
102-13122-01	TANK VIB DECAL	13	29	1
		15	29	1
		29	19	1
102-13123-01	ON/OFF DECAL	13	31	1
		15	31	1
		29	27	1
102-13124-01	FREQ. ADJ. TANK END DECAL	13	34	1
		15	34	1
		29	28	1
102-13125-01	FREQ ADJ ENGINE END LABEL	13	35	1
		15	35	1
		29	24	1
102-13342-01	DISC BRAKE	106	51	1
102-30212-01	STRAINER	41	10	1
		43	10	1
		45	35	2
102-30212-10	CAP	45	37	1
102-30212-11	O-RING	45	38	1
102-30212-13	SCREEN	45	39	1
102-30212-14	BODY	45	40	1
102-30224-02	LIQUID GAUGE MECH	18	8	1
102-30244-01	FUEL GAGE	58	1	1
102-30292-11	LOCK NUT	86	1	1
102-30292-16	O-RING	86	2B	1
102-30292-21	DUST SEAL	86	2D	1
102-30434-01	BLOCK	31	1	2
102-31008-11	PISTON SEAL	86	2A	1
102-31008-12	PISTON	86	3	1
102-31008-13	STOP TUBE	86	4	1
102-31008-16	SLEEVE	86	7	1
102-31008-17	O-RING W BACKUP SEAL	86	2C	1
102-31008-18	CAP	86	8	1
102-31008-19	LOCKWIRE	86	9	1
102-31008-20	Zn PL CAPSCREW	86	10	2
102-31008-21	O-RING W/BACKUP SEAL	86	2E	1
102-31008-22	SEAL KIT 1566-S	86	2	
102-31047-01	LABEL-WARNING	13	5	4
		15	5	4
102-31193-01	OIL COOLER	55	31	1
102-31242-01	CVR PL	105	32	1
102-31243-01	BRG-RET	105	9	1
102-31245-01	MTG PL-1000	105	34	1

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
.02-31245-02	MTG PL-1000	105	35	1
102-31248-02	HOSE ASSY 1/4 ID	27	37	1
102-31248-05	HOSE ASSY 1/4 ID	27	35	1
102-31248-09	HOSE ASSY 1/4 ID	27	36	1
102-31257-01	BALL JOINT HSG-1000	85	6	2
102-31258-01	STEERING CYL	85	5	1
102-31267-01	ROLL SCRAPER-1000	37	3	1
		47	2	1
102-31268-01	SCRAPER MTG BAR-1000	47	1	1
102-31269-01	SCRAPER BACK-UP BAR	37	4	1
		47	4	1
102-31306-02	SUCTION HOSE 1IN ID	56	41	1
102-31371-01	PID MNTG PLT.	25	21	1
102-31431-01	DECAL-EMERG BRAKE	13	25	2
		15	25	2
102-31459-01	SHIM HALF .005	53	13	8
102-31459-02	SHIM HALF .010	53	14	8
102-31459-03	SHIM HALF .020	53	15	4
102-31495-01	GASKET	55	20	1
		113	18	1
102-31648-01	DECAL, CAUTION HOT OIL	13	26	2
		15	26	2
102-31681-01	DIESEL ENGINE	55	1	1
102-31712-01	VIB CONTROL MODULE	27	41	2
		79	7	2
2-31740-02	HOSE ASSEMBLY 70"	56	77	1
		58	5	1
102-31761-01	SILVER SERIES DECAL	13	27	2
		15	27	2
102-31762-01	REX DECAL	13	13	2
		15	13	2
		25	23	2
102-31772-01	THROTTLE CABLE	23	18	1
		25	2	1
102-31790-01	PILOT BUSHING	56	68	1
		113	31	1
102-31798-01	THROTTLE CABLE BRKT	56	60	1
102-31804-01	INSTRUMENT PANEL	29	23	1
102-31808-01	SP1000 DECAL	13	4	2
		15	4	2
102-31810-01	GASKET	37	9	1
102-31917-01	MOUNTING PLATE	27	40	1
102-50049-01	TOOL BOX	21	2	1
102-50256-01	ROPS-1000 VIB ONLY	51	1	1
102-50395-01	RADIATOR	55	28	1
102-50427-01	SP1000 SERVICE CHART	13	6	1
		15	6	1
212-00276-17	IGNITION LOCK SWITCH	29	5	1
		79	39	1
212-00531-47	FILLER CAP W/CHAIN	37	10	1
2-02116-56	VOLT METER SP400	29	9	1
		79	38	1
212-02117-56	OIL PRESSURE GAUGE	29	7	1
		79	37	1

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
212-02118-56	TEMP GAUGE 100-280	29	8	1
		79	36	1
212-02119-56	TEMP SENDER SP400	56	50	1
		67	3	1
		80	55	1
212-06000-17	10 AMP CIRCUIT BREAKER	29	26	1
		79	13	1
298-00007-44	ACID-ELECTROLYTIC	73	7	
298-00009-71	NUT-STEERING WHEEL	23	7	1
298-00019-17	GRIP-CORD 9/16-1/2	25	18	2
298-00036-71	3/4 UNC-CAP LOCK NUT	23	11	1
298-00038-97	7/8 WASHER-HARDENED	53	5	8
		85	19	8
298-00039-97	1/2" HARDENED WASHER	35	35	4
		37	18	4
		47	6	10
		55	19	8
		106	48	46
298-00041-97	5/8" HARDENED WASHER	106	49	9
298-00042-97	3/4 HARDENED WASHER	18	5	8
		23	16	2
		53	3	6
		85	1	3
		85	17	6
		105	22	16
298-00048-17	1/2" CORD GRIP	27	39	1
		80	50	1
298-00052-17	BOOT-TOGGLE SWITCH	25	30	1
		69	13	1
		79	17	5
		101	13	1
298-00057-47	CLIP-SGL TUBE	56	44	1
298-00068-93	3/8X1-1/4 FL H CAPSCREW -NY	21	16	16
298-00075-93	1/4" X 1-1/2" CAPSCREW ZN PLT	27	7	4
		39	9	3
298-00084-17	KNOB	101	15	1
298-00098-93	1/4" X 3/4" HT ZN PLTD CAPSCRE	25	17	18
		39	6	5
298-00100-93	1/4X2-1/2 HT ZN PL CAPSCREW	27	31	2
298-00101-93	5/16 X 1 HT ZN PL CAPSCREW	23	23	10
		56	56	2
298-00103-17	PICK UP MAGNETIC	79	30	2
		105	27	1
298-00103-93	CAPSCREW 3/8"-16 X 3/4" ZN PL	21	3	4
		37	7	14
298-00105-93	3/8" X 1-1/4" HT ZN CAPSCREW	23	36	6
		55	15	12
298-00106-93	CAPSCREW	73	4	2
298-00114-93	1/2" X 1-1/2" HT ZN CAPSCREW	21	10	4
		35	33	8
		37	16	2
		55	18	4
		55	36	8
		103	3	56

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
298-00114-93	1/2" X 1-1/2" HT ZN CAPSCREW	106	42	68
298-00115-93	1/2" X 1-3/4" HT ZN PL CAP SC	37	5	5
298-00116-93	1/2" X 2-1/4" HT ZN CAPSCREW	85	12	2
298-00123-47	HOG RING	37	15	12
298-00124-93	5/8 X 1-3/4 HT ZN PL CAPSCREW	53	2	6
		55	30	4
		56	72	4
		85	16	6
298-00125-93	5/8 X 2 HT ZN PL CAPSCREW	106	43	8
298-00130-93	3/4 X 2 HT ZN PL CAPSCREW	23	2	1
298-00131-47	HAIRPIN	19	3	2
298-00132-93	3/4 X 2-1/2 HT ZN PL CAPSCREW	85	4	3
298-00141-17	PLUG BUTTON 1/2	29	17	1
298-00170-93	1/2" X 5" CAPSCREW -GRD 5	106	53	2
298-00175-47	FUEL TANK CAP	18	7	1
		58	2	1
298-00176-93	1/4" X 1-1/4" CAPSCREW -GRD 5	23	29	10
		25	16	10
		27	24	10
		101	4	2
298-00178-93	1/2" X 1-1/4" HEX CAPSCREW GR5	21	6	4
		51	3	4
298-00183-93	7/8 X 2-1/2 CAPSCREW -GRD 5	51	6	12
298-00185-93	1/2" X 3/4" CAPSCREW -GRD 5	69	2	8
298-00190-53	OIL FILTER HEAD	55	24	1
298-00191-53	OIL FILTER ELEMENT	35	28	1
		55	25	1
298-00196-53	VENT CAP	35	11	1
298-00224-93	7/8 X 3 UNC CAPSCREW ZN PL	53	4	4
		85	18	4
298-00240-93	CAPSCREWEW 3/4X 4-1/2	18	3	4
		106	44	16
298-00256-17	MAGNETIC PICK UP	70	1	1
		79	21	1
298-00256-93	12PT. FLANGED CAPSCREW	113	13	2
298-00269-17	WIRE MARKER-5	101	24	1
298-00270-17	WIRE MARKER-18	101	25	1
298-00271-17	3/16 SHRINK TUBE	101	29	1/2'
298-00278-47	KNOB-STEERING WHEEL	23	9	1
298-00284-93	FERRY	55	35	8
		113	30	8
298-00295-17	RELAY SOCKET	27	43	2
		79	6	2
298-00314-02	BEARING	31	3	2
298-00315-02	FLANGETTE BEARING	31	4	4
298-00326-93	3/8" X 1-1/4" FERRY CAPSCREW.	56	69	2
298-00403-02	SPHERICAL BRG	105	3	2
298-00404-02	BRG CUP	105	28	2
298-00405-02	BRG CONE	105	29	2
298-00406-02	ROD END 1/4IN FEMALE	27	6	3
		39	3	4
298-00407-02	SPHERICAL BUSHING	85	7	2
298-00417-47	4" MUFFLER CLAMP	57	11	1
298-00453-47	STEERING WHEEL	23	6	1

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
298-00453-47	STEERING WHEEL	25	31	1
298-00454-47	STEERING WHEEL CAP	23	8	1
298-00457-47	EXHAUST CLAMP	57	1	6
298-00460-47	V-BAND CLAMP	56	43	1
		57	9	1
298-01003-04	U-BOLT	35	16	1
298-02010-71	1/2" LOCKNUT	103	4	56
		106	45	56
298-02032-71	7/8 LOCKNUT	53	6	4
		85	20	4
298-02034-71	1/4" LOCKNUT	25	9	14
		27	8	14
		39	7	8
298-02035-71	3/4 LOCKNUT	18	6	4
		106	55	4
298-02040-62	1/8X90 STREET ELBOW	56	53	1
298-02063-71	1/2"-13 LOCKNUT FLG.	21	7	4
		21	11	4
		27	20	1
		35	36	4
		37	17	2
		51	4	4
		73	11	4
		85	21	2
298-02065-71	3/8-16FLGD LN-ZN PL	21	4	4
		35	17	2
		73	5	4
298-02067-71	3/4-10 FLGD LN-ZN PL	23	12	2
298-02081-71	LOCKNUT	106	47	1
298-02096-62	ADAPTER STRAIGHT	56	79	REF
		58	4	1
298-02108-56	SIGHT PLUG	35	2	1
298-02126-62	ELBOW 90 DEG	106	58	1
298-02140-56	VACUUM GAUGE	35	30	1
		56	54	1
298-02173-62	ADAPTER UNION	102	1	1
		106	57	1
298-02263-62	3/4 IN SERVICE TEE	55	29	1
298-03002-17	HOUR METER 12V	29	4	1
298-03016-17	MOUNTING-HOUR METER	29	6	1
		79	10	1
298-03041-17	TACHOMETER/HOUR METER	71	1	1
298-03113-68	SEAL-HUB	105	15	2
298-03139-68	OIL SEAL	105	7	2
298-03140-68	OIL SEAL	105	30	2
298-03144-68	O-RING	113	14	1
298-03255-17	BATT ALL VIBS EX 400	73	6	
		79	26	1
298-03575-68	O-RING	105	2	1
298-03594-68	O-RING	56	71	1
298-05004-17	CIRCUIT BREAKER 2 A	29	13	1
		79	12	1
298-05005-17	CIRCUIT BRK 20 AMP	29	12	1
		79	11	2

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
298-05092-92	ELBOW-90 DEG	59	4	1
298-05177-92	RADIATOR CAP	55	28A	1
298-05212-92	EXHAUST MUFFLER	57	2	1
298-05229-92	CONN FLEX EXHAUST	57	4	1
298-05294-92	EXHAUST ELBOW 90O	57	3	1
298-05301-92	MOUNTING BANDS	59	8	2
298-05303-92	HOOD - AIR CLEANER	27	33	1
		59	12	1
298-05306-92	TUBE REDUCER	57	7	1
298-05307-92	CONNECTOR	57	6	1
298-05309-92	4 X 3 ELBOW	59	1	1
298-05310-92	RUBBER ELBOW	27	16	1
		59	9	2
298-05525-68	RUBBER GROMMET	25	19	1
298-05764-68	HOSE - LOWER RADIATOR	56	58	1
298-06000-34	5/16 X 1-3/4 ROLLPIN	23	15	1
298-06007-34	5/16 X 2-1/2 ROLLPIN	23	14	1
298-06029-34	3/16 X 1-1/4 ROLLPIN	31	15	2
298-06035-34	ROLL PIN 3/8X2IN	31	16	2
298-06061-17	SWITCH-PRESSURE 12V	56	48	1
		67	1	1
		80	54	1
298-06067-17	STOP BUTTON	25	25	1
		79	24	1
298-06123-17	TOGGLE SWITCH	69	18	1
		80	44	1
298-06139-17	TOGGLE 1 POLE SEALED	29	1	2
		80	42	2
298-06144-17	TOGGLE 1 POLE	79	16	1
298-06507-86	3/4X90 STL-ELBOW	55	10	1
298-06508-86	1/4" X 90 STR ELBOW	35	9	1
		56	78	REF
		58	3	1
298-06510-86	ELBOW 1 IN-DRY SEAL	35	20	1
298-06523-68	AIR FILTER INDICATOR	59	6	1
298-06525-86	45 DEG MALE ELBOW	35	5	1
298-06526-86	Male NPTF/37o flare adapter	56	59	1
298-06530-17	TOGGLE SWITCH SPDT	25	29	1
298-06535-17	TOGGLE SWITCH	29	2	1
		80	41	1
298-06543-17	SOLENOID SWITCH	25	15	1
		27	23	1
		80	46	1
298-06561-17	BRAKE SWITCH	25	26	1
		80	45	1
298-06564-17	SWITCH, TOGGLE	101	12	1
298-06565-17	SWITCH BACK-UP ALARM	39	14	1
298-06568-17	LIMIT SWITCH	27	38	1
		39	13	1
		79	4	1
298-06571-86	90 DEG REDUCE ELBOW	56	45	2
298-06572-17	FLOAT SWITCH ASSEMBLY	79	27	2
298-06572-86	90DEG ELBOW MALE 848	27	15	1
298-06573-86	MALE TEE	27	18	1

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
298-06576-86	ADAPTER, ELBOW	35	4	2
298-06602-86	HOSE BARB	35	27	1
		55	5	1
298-06603-86	O-RING/FEM PIPE SWIV	55	6	1
298-06605-86	ADAPTER LONG 90	55	7	2
298-06607-86	HOSE CLAMP("T BOLT)	55	3	2
298-07024-34	SNAP RING 3-5/8	85	11	2
298-07027-08	BUSHING	105	26	1
298-07532-34	SNAP RING-INTERNAL	105	16	2
298-08049-80	ELBOW 90 DEG	56	76	REF
298-08049-86	ELBOW 3/8" PIPE JIC	58	6	1
298-08050-86	ADAPTER #16 O-RING	55	8	4
298-08089-86	ADAPTER ELBOW-90 DEG	56	51	1
298-08133-86	90 DEG ADAPTER	102	2	2
		106	56	4
298-08184-86	ELBOW-ADJUST-90 DEG	56	52	1
298-08196-86	REUSABLE FITTING-1"	35	3	1
298-08209-86	ADAPTER 90 DEG	55	39	1
298-08210-86	PIPE ADAPTER TO HOSE	35	10	1
		55	27	1
298-08353-86	ADAPTER TO OIL COOLER	55	23	1
298-09012-86	CLAMP-1-9/16TO2-1/2	56	62	2
298-09015-86	CLAMP 3-1/16 TO 4	59	2	1
298-09018-86	1" HOSE CLAMP	41	4	6
		43	4	6
298-09026-86	HOSE CLAMP	59	5	3
		59	11	5
298-09048-86	HOSE CLAMP	41	15	4
		43	15	4
298-09066-86	HOSE CLAMP	56	80	2
298-09070-86	HOSE CLAMP-T-BOLT-1"	56	74	2
298-09071-86	HOSE CLAMP	27	17	1
298-10027-02	INNER RING BRG	53	9	4
298-10028-02	OUTER RING BRG	53	11	4
298-12001-86	1/2" CLOSE NIPPLE	55	13	1
298-12013-86	NIPPLE 3/4 NPT	55	11	1
298-13010-86	1" MAG PIPE PLUG	35	24	1
298-13030-86	1" PIPE PLUG	56	49	4
298-13162-17	LIGHTING KIT	69	10	4
		79	40	4
298-13266-17	SOCKET,RELAY	101	1	1
298-13295-17	RELAY CLIP	27	44	2
298-14503-86	3/4X1/4 RED BUSHING	35	7	1
298-15018-17	HORN RELAY	56	64	2
		79	23	2
298-15083-17	RELAY	27	42	2
		79	5	2
298-17002-86	3/4 IN PIPE TEE	56	46	1
298-19030-86	SOCKET TEE 3/4X3/4	49	4	2
298-19038-86	1/2" IN PIPE CROSS	55	12	1
298-20563-17	RELAY-OFF/ON FLSHR	101	2	1
298-26004-17	TERMINAL EYELET #10 SCREW	29	25	1
		69	7	5
298-26029-17	TERMINAL-WIRE-BULLET NOSE	69	5	14

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
298-26029-17	TERMINAL-WIRE-BULLET NOSE	79	32	6
298-26057-17	CONNECTOR-FEMALE-PUSH ON	69	4	4
		79	31	2
298-26100-17	WINDOW SPLICE-WIRE 14/16AWG	70	4	1
		79	19	1
298-26101-17	TWO-WIRE SPLICE	69	6	2
		79	35	4
298-26137-17	RING TERMINAL	101	16	3
298-26142-17	#14-16AWG 1/4 EYELET	79	15	1
298-26153-17	TACH. TERMINAL END	71	2	1
298-30021-17	HOURMETER	79	9	1
298-90000-86	HOSE CLAMP-RADIATOR	56	61	2
398-02001-79	3/8 X 1-1/4 ZN PL CAPSCREW	25	27	2
398-02002-19	CAPSCREWEW	33	2	8
		47	5	5
		56	67	2
		103	5	24
		106	41	36
		106	50	36
398-02002-22	1/2" X 1-1/2" CAPSCREW	73	10	4
398-02002-28	1/2" X 2" HEX H HT CAPSCREW	47	3	5
		53	16	12
398-02005-50	3/8 X 2-1/2 ZN PL CAPSCREW	31	14	2
398-02005-77	5/16X3/4HT UNC CAPSCREW	23	30	1
398-02077-55	#10-24 X 1-1/2" MACH SC	27	9	2
398-03000-68	3/16" X 2" COTTER	85	14	2
398-04000-61	SO 18-3 CABLE	25	12	1
		27	13	2.2FT
398-08000-07	#1610B ALEMITE	105	10	1
398-08000-11	#1613B ALEMITE	53	7	1
398-08000-19	#1688B ALEMITE	53	8	3
		85	2	2
398-08000-31	FITTING #43716	59	13	2
398-10000-51	10-24X1 RD MCH SC	25	13	1
398-10002-24	#8-32 X 7/8" MACH. SER.	29	10	8
398-10002-35	NO.6 32X3/4 RHMS	101	8	2
398-11000-03	3/8 UNC NUT ZN PL	21	19	16
		25	7	12
		31	7	11
398-11000-04	1/2"1-13 NUT, PLATED	69	3	4
398-11000-15	6/32 HEX NUT	101	10	2
398-11000-16	NUT, HEX. #10-32	25	10	4
		27	10	4
398-11000-18	5/16 UNC NUT	23	22	1
398-11000-37	1/4" UNF NUT	39	10	4
398-11000-44	3/4 UNF NUT	106	46	10
398-11000-87	SAE CASTLE NUT 1-1/4	85	13	2
398-11003-47	1/4" ZN PL HEX NUT	41	17	8
		43	17	8
		101	7	2
398-11004-01	1-1/4" NUT UNF	27	22	3
398-14000-13	1/2" X 3/8" OUTSIDE BUSH	55	9	3
398-14000-14	1/2" X 3/8" GALV BUSH	49	7	1
398-14000-44	STL COUPL 1/8	80	51	2

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
398-14000-90	PIPE CAP GALV 3/4	49	3	2
398-14001-19	2X90 ELBOW	35	13	2
398-14001-34	3/8X90 STREET EL GAL	41	2	7
		43	2	7
398-14001-38	1/2" X 90 STR ELBOW GAL	49	6	1
398-14001-74	1/8X1-1/2 NIPPLE	80	52	2
398-14002-28	3/8 CLOSE NIPP GALV	41	8	3
		43	8	3
398-14003-32	1" X 4-1/2" NIPP TBE	35	19	1
398-14005-22	3/8 GAL STD PIPE TEE	41	3	2
		43	3	2
398-14005-63	1/8 SQ ST PLUG	53	18	2
398-14005-71	3/8 SQ ST PLUG	105	31	2
398-14006-77	1-1/4" CLOSE PIPE NIP	35	14	1
398-14006-87	3/8X1-1/2GL PIPE TOE	41	1	5
		43	1	5
		49	8	1
398-14007-09	PIPE PLUG C PL 1/2	35	32	1
398-14009-46	3/4X3/8RED CPLG GAL	41	14	1
		43	14	1
		49	9	1
398-14009-91	1" X 3/4" RED COUPLING	35	18	1
		35	22	1
398-14010-47	1-1/2" X 1" RED BUSH	35	23	1
398-14010-95	3/4X3/4X1/2 R TEE GA	49	2	1
398-14011-49	1/8" SERVICE TEE	56	47	1
		67	2	1
398-14011-59	2 X 5 NIP TBE	35	12	1
398-14011-76	2X19 PIPE NIP GALTBE	35	15	1
398-14011-80	2"X1-1/4 RED BUSH	35	6	1
398-20000-10	13/16" X 1-1/2" X 9/64" WASHER	23	32	4
398-20000-12	3/8" LOCKWASHER	21	18	16
		23	21	6
		25	8	14
		31	9	13
398-20000-13	WASHER, FLAT 1/2"	55	34	4
398-20000-21	3/16 CUT WASHER	27	19	2
398-20000-34	6 LOCK WASHERS	101	26	2
398-20000-35	LOCKWASHER 3/16"	25	11	7
		27	11	7
398-20000-36	LOCKWASHER 1/4"	23	28	12
		25	14	12
		39	8	7
398-20000-37	L.W. 3/8"	55	16	12
398-20000-39	1/2" LOCK WASHER	33	3	8
		35	34	4
		47	7	10
		53	17	12
		56	70	8
		69	9	8
		69	16	4
398-20000-41	5/8 LOCK WASHER	56	73	4
398-20000-64	5/16 LOCK WASHER	23	24	13
398-20000-66	FL WASH	21	17	16

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
398-20000-66	FL WASH	31	8	7
		37	8	14
		55	38	2
398-20000-87	#6 SAE WASHER 5/32" X 3/8"	101	9	2
398-20000-89	7/8 LOCK WASHER	51	5	12
398-20000-91	FLAT WASHER 1/4"	101	5	6
398-20001-25	1/4" D LW ZN PL	101	6	2
398-20001-43	#8 CUT WASHER	29	11	8
398-95001-81	LOCKWASHER	56	55	2
398-95002-93	#14 CABLE - ORANGE	69	8	31 FT.
		79	33	1
398-95002-94	1/4" NON FLEXI LOOM	69	14	30 FT.
		79	34	1
398-99005-84	1X7-1/2 PIPE NIP TBE	35	21	1
398-99006-31	3/4X3/8RED BUSH-GALV	41	11	2
		43	11	2
398-99006-90	2 TWIST LINK CHAIN	35	25	2.2
398-99011-15	5/8 UTL HOSE X100 FT	41	5	12.5"
		41	12	4'4"
		41	13	3'4"
		43	5	12.5"
		43	12	4'4"
		43	13	3'4"
402-00726-02	ROLL HUB	105	6	1
402-01775-02	BEARING RETAINER	53	12	2
402-02616-04	ARTICULATING CROSS	53	10	1
502-00205-80	CORD	70	3	1
		79	20	1
502-01338-98	HOSE ASSY	67	4	1
502-01341-86	HOSE	27	34	1
502-02693-80	BATTERY CLAMP	73	2	1
502-03791-01	SPEEDOMETER	79	18	1
502-04965-80	L/H GATE SGL LEVER	23	20	1
		25	5	1
		27	4	1
		31	6	1
502-04966-80	R/H GATE SGL LEVER	25	6	1
502-06988-80	ROLL	105	1	1
502-06991-80	ISOLATOR MNT-1000	105	8	1
502-06993-80	DR-SPIDER-1000	105	36	1
502-06997-80	MOTOR MNT VIB DR	105	13	1
502-06999-80	SPRINKLER TANK 135G	37	1	1
502-08523-07	BATTERY CABLE	73	13	1
502-08774-80	BATTERY TRAY-1000	21	5	1
		73	8	1
502-08794-80	WIRE ASSY	29	14	1
		69	15	1
502-08794-81	WIRE ASSY	29	22	5
502-08794-82	WIRE ASSY	29	21	4
		69	17	1
		80	43	1
502-08795-80	CTRL HANDLE	23	19	2
		25	4	2
		27	3	2

PART NUMBER	DESCRIPTION	PAGE	ITEM	QTY.
502-08795-80	CTRL HANDLE	31	5	2
502-08807-80	LIGHT BRKT	69	11	4
502-08823-80	HANDRAIL	21	1	1
502-08867-80	FRAME WIPER MAT	37	14	1
502-08891-80	WIRE ASSY BLACK	101	20	3
502-08891-81	WIRE ASSY NO.5	101	17	1
502-08891-82	WIRE ASSY NO.65	101	27	1
502-08891-83	WIRE ASSY NO.18	101	18	1
502-08891-84	WIRE ASSY NO.62	101	29	1
502-08892-80	POT. & HARNESS ASSY	101	14	1
502-09002-80	R-ROLL FRM SP-1000	18	1	1
502-09003-80	BRG HOUSING	53	1	1
		85	15	1
502-09005-80	OPERATORS PLATFORM	21	12	1
502-09006-80	HYDRAULIC TANK	35	1	1
502-09015-80	ENG HOOD	21	14	1
502-09015-81	ENG HOOD	21	15	1
502-09055-80	CTRL SHAFT	31	2	1
502-09389-80	FRONT ENGINE MOUNT	55	37	1
502-09393-80	FRONT MAIN FRAME	17	1	1
502-09405-80	CENTER HOUSING	21	13	1
		27	1	1
502-09489-80	SHAFT ASSEMBLY	105	5	1
502-20145-80	COLUMN-STR WHEEL	25	1	1
502-20161-89	BATTERY CABLE-20"	56	65	1
		73	12	1
		79	25	2
502-20492-80	HANDWHEEL&FREQ PICK	105	12	1
502-20497-80	STEERING LUG-1000	85	3	11
502-20879-80	REAR ENGINE MOUNT	55	33	2
502-20880-80	SHROUD RAD/OIL COOLER	55	26	1
502-20883-80	FILTER BRACKET	56	57	1
502-20910-80	FLANGE FILLER	37	6	1
502-30209-80	ELBOW TURBO OUTLET	57	8	1
502-30209-86	TURBO EXHAUST ELBOW	56	42	1
502-30214-80	AIR INLET TUBE	59	3	1
502-30215-80	COVER PLATE	21	9	1
502-30218-80	TRACTION MOTOR CTRL BRKT	55	21	1
502-30285-80	POTENTIOMETER ASSEMBLY	29	29	2
		80	47	2
602-03791-01	SP-1000 SPEEDOMETER	70	2	1
602-03795-01	FREQ METER	29	3	1
		79	3	1
602-03881-01	VIB SWITCH HARNESS	79	2	1
602-10744-01	BATTERY ASSEM	73	1	1
602-20260-01	MAIN WIRING HARNESS	25	28	1
		79	1	1

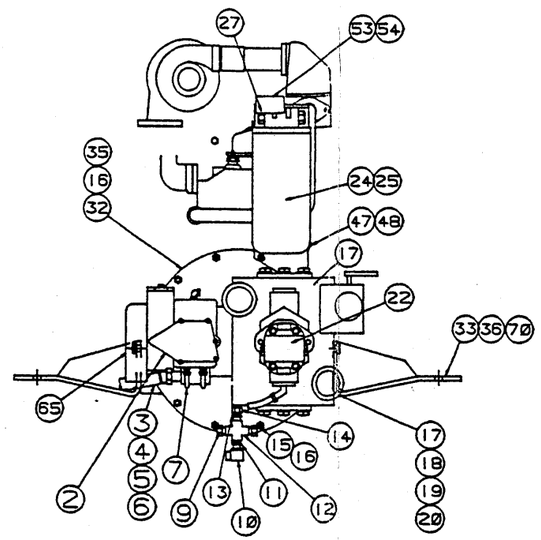
MAIN FRAME - ARTICULATING JOINT ASSEMBLY

ITEM NO.		PART NUMBER	QTY.	DESCRIPTION
1		502-09003-80	1	BEARING HOUSING
2		298-00124-93	6	3/4 X 1-3/4 CAPSCREW GR5
3		298-00042-97	6	3/4 HARDENED WASHER
4		298-00224-93	4	7/8 X 3 UNC CAPSCREW
5		298-00038-97	8	7/8 HARDENED WASHER
6		298-02032-71	4	7/8 LOCK NUT
7		398-08000-11	1	LUBE FITTING 90DEG
8		398-08000-19	3	LUBE FITTING 45DEG
9		298-10027-02	4	INNER RING THRU - BRG
10		402-02616-04	1	ARTICULATING CROSS
11		298-10028-02	4	OUTER RING THRU BRG
12		402-01775-02	2	BEARING RETAINER
13	*	102-31459-01	8	HALF SHIM .005
14	*	102-31459-02	8	HALF SHIM .0075
15	*	102-31459-03	4	HALF SHIM .020
16		398-02002-28	12	1/2 X 2 CAPSCREW
17		398-20000-39	12	1/2 LOCK WASHER
18		398-14005-63	2	1/8 PIPE PLUG

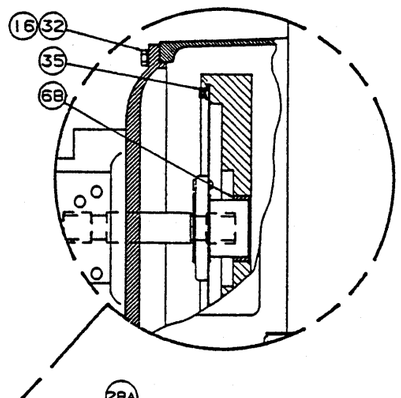
*** = USE AS REQUIRED TO ACHIEVE .005 PRELOAD ON BEARINGS**

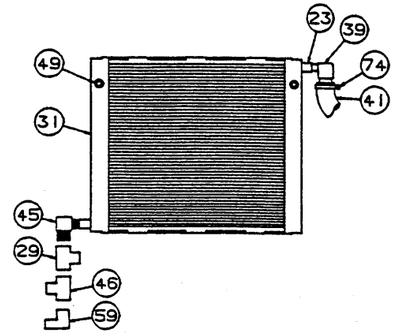
POWER UNIT - ENGINE

B6026091CAD



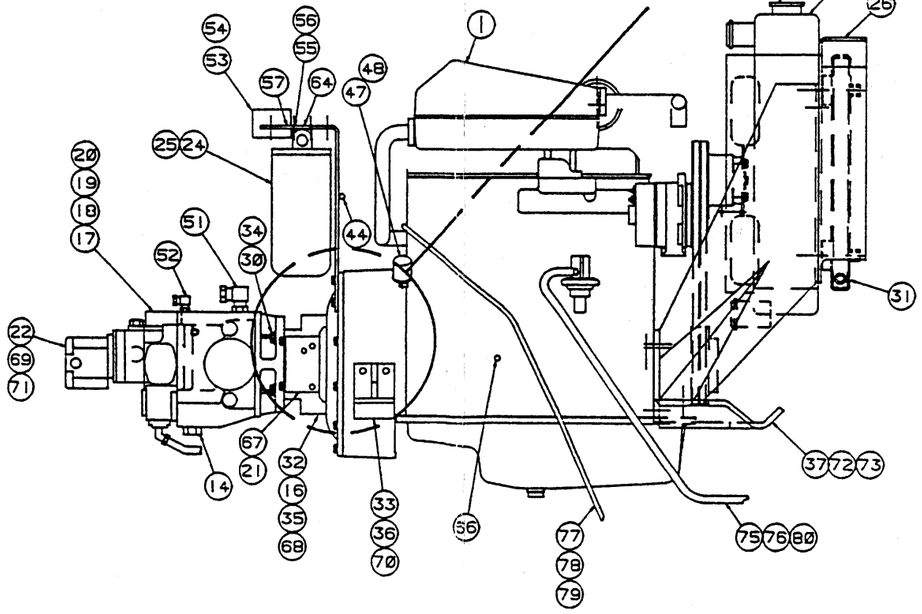
REAR VIEW

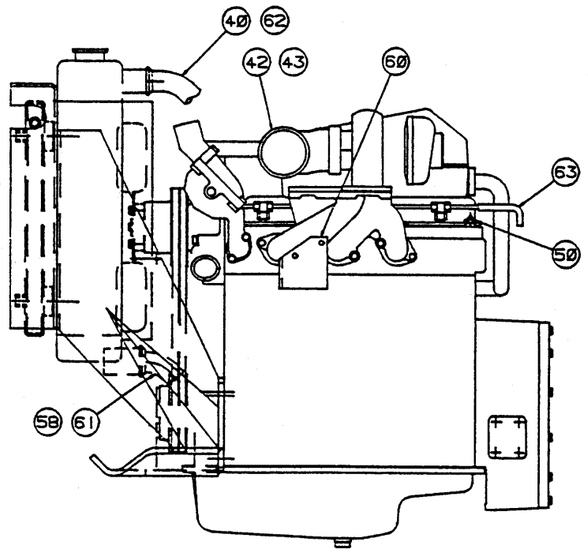




HYDRAULIC OIL COOLER

NOTE:
1. INSTALL TANDEM PUMP (ITEM 2) FIRST FOR CLEARANCE PURPOSES.
2. TRACTION MOTOR CONTROL BRACKET (ITEM 21) IS MOUNTED TO TANDEM PUMP.
3. HORN RELAY (ITEM 64) IS MOUNTED TO FILTER BRACKET.
4. BATTERY CABLE-GROUND (ITEM 65) INSTALLED AT LEFT REAR ENGINE MOUNT.
5. BATTERY CABLE (ITEM 66) IS MOUNTED ON STARTER MOTOR.
6. TUBE CLAMP (ITEM 44) IS INSTALLED ON FILTER BRACKET.





ELECTRICAL COMPONENTS - RECOMMENDED MAINTENANCE/SERVICE PROCEDURE FOR 12 VOLT BATTERY (continued)

Slow Charging Batteries to Remove Sulfation

To condition a battery that is sulfated, charge battery for a minimum of 24 hours at a maximum charging rate of four (4) amperes. As battery approaches full charge check specific gravity at hourly intervals. With no rise in specific gravity for three successive readings batter is charged to its peak capacity.

Fast Charging

Fast chargers give only a boost charge and the charging rate should be confined to the following:

20 to 25 amperes maximum for 40 to 50 ampere hour batteries.

25 to 30 amperes maximum for 60 to 70 ampere hour batteries.

⚠ CAUTION

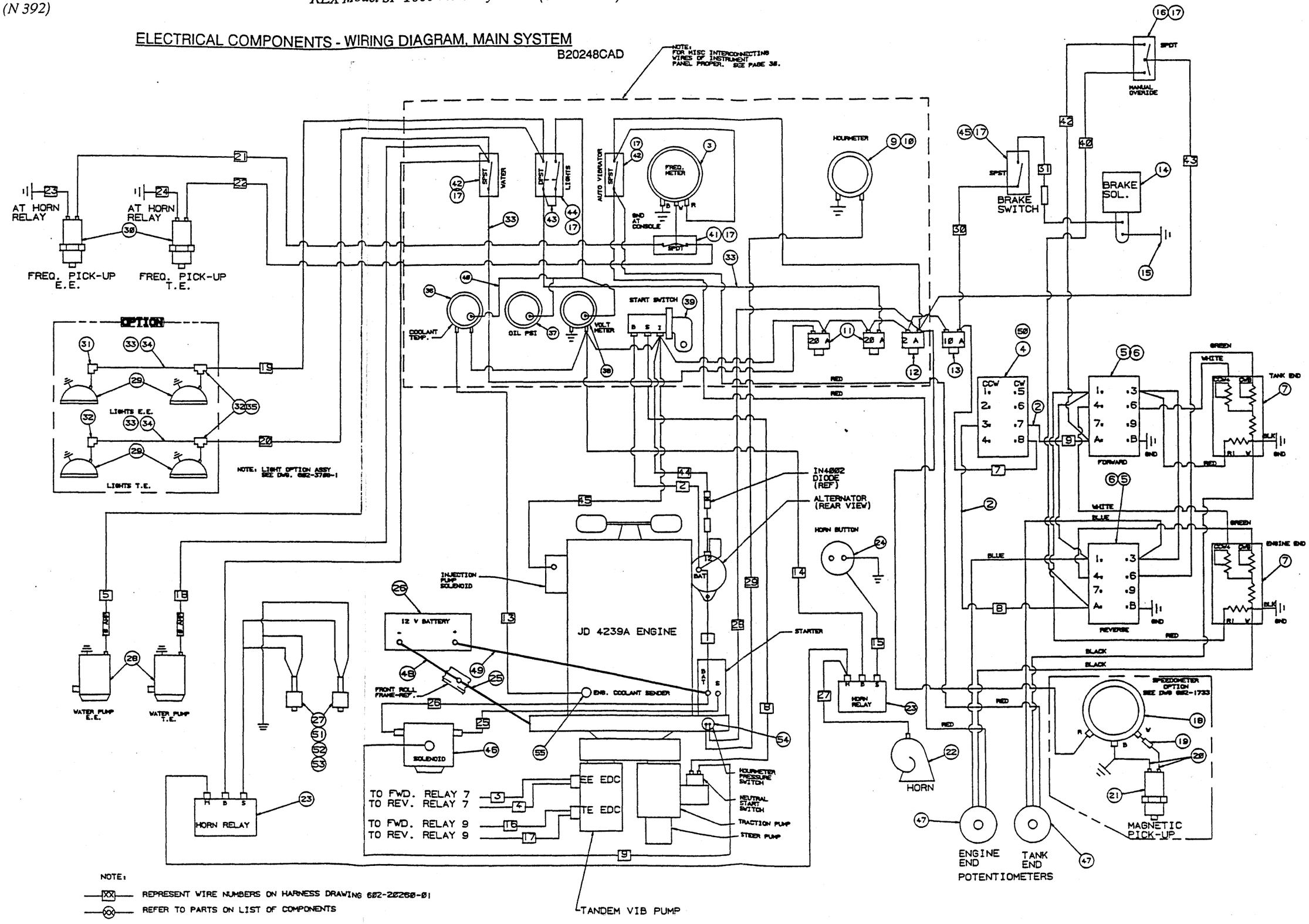
Battery temperature should not exceed 125 degrees F. during charge. If charger is not equipped with thermostatic cut-off and battery has not received sufficient charging, turn charger off until battery has cooled to 100 degrees F. before starting high rate charge for continued charging.

⚠ WARNING

When batteries are being charged an explosive gas mixture forms beneath cover of each cell. Do not smoke near batteries on charge or which have recently been charged. Do not break live circuits at terminals of batteries on charge. A spark will occur where the live circuit is broken. Keep all open flames away from battery.

ELECTRICAL COMPONENTS - WIRING DIAGRAM, MAIN SYSTEM

B20248CAD

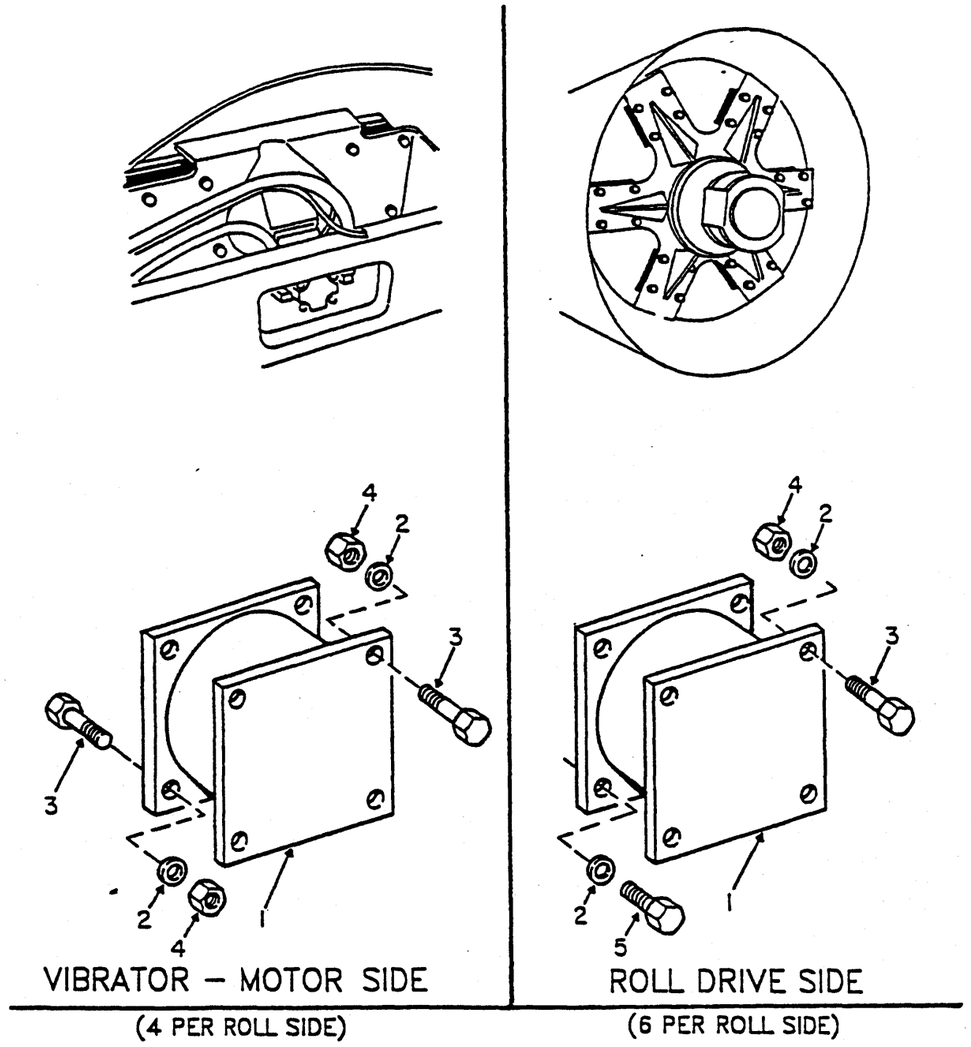


NOTE:

XX — REPRESENT WIRE NUMBERS ON HARNESS DRAWING 602-20260-01

XX — REFER TO PARTS ON LIST OF COMPONENTS

VIBRATION DRIVE COMPONENTS - RUBBER VIBRATION ISOLATORS

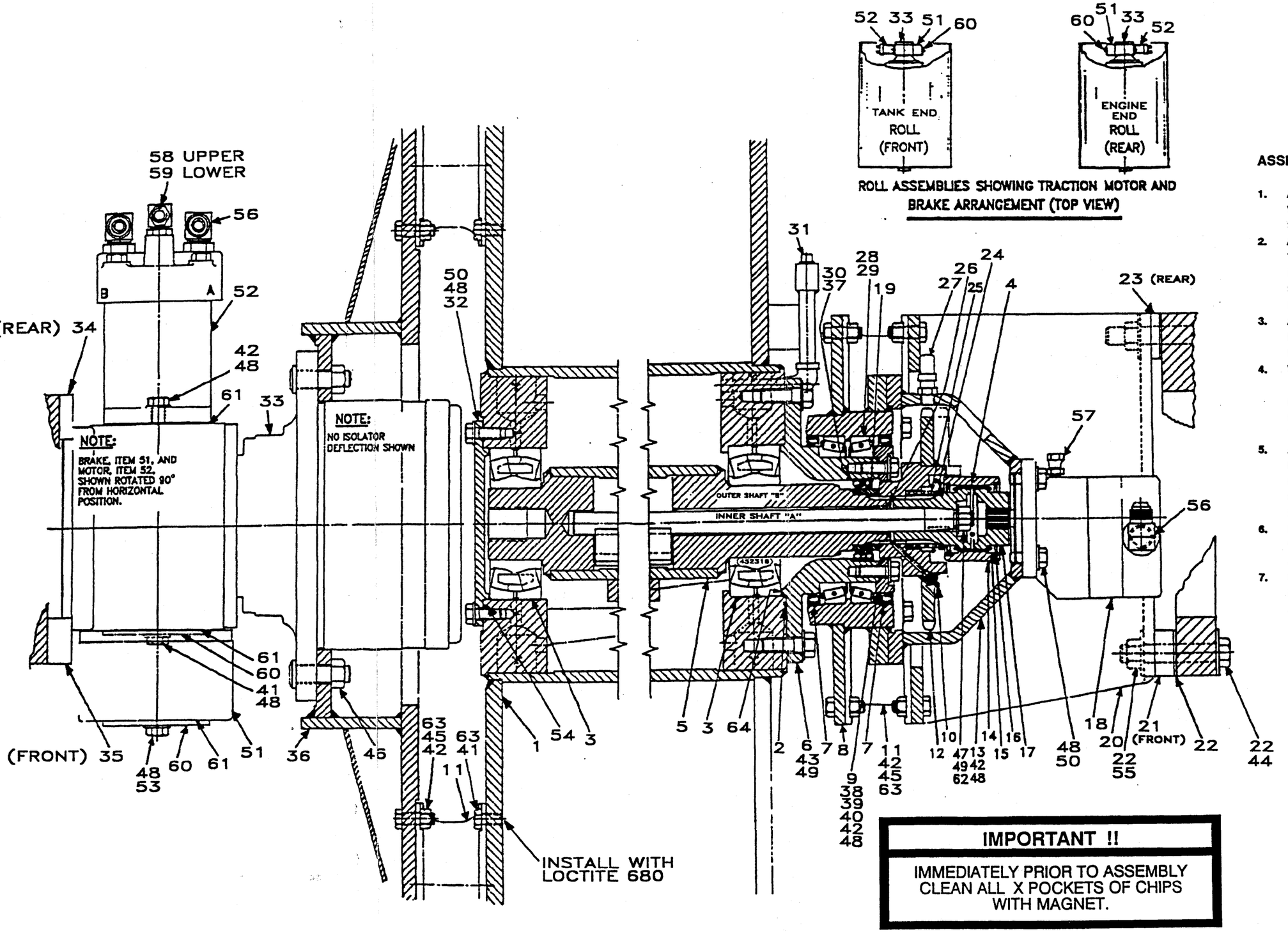


ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	102-11608-01	10	ISOLATOR
2	102-12502-01	80	SPECIAL WASHER
3	298-00114-93	56	1/2" X 1-1/2" CAPSCREW
4	298-02010-71	56	LOCKNUT 1/2"
5	398-02002-19	24	1/2" X 1-1/4" CAPSCREW

NOTE: USE LOCTITE #680 WHEN INSTALLING ITEM #5.

VIBRATION DRIVE COMPONENTS - VIBRATORY DRUMS

B6071A/B6071B



ROLL ASSEMBLIES SHOWING TRACTION MOTOR AND BRAKE ARRANGEMENT (TOP VIEW)

ASSEMBLY NOTES:

1. AFTER ITEM 5 IS INSTALLED, MAKE SURE WEIGHTS ON INNER SHAFT "A" AND OUTER SHAFT "B" ARE IN THEIR LOWEST POSITION.
2. ASSEMBLE HANDWHEEL ITEM 12 TO ITEM 5 SO THAT THE LUBRICATION FITTING IS IN THE LOWEST POSITION AND THE #1 POSITION, STAMPED ON THE WHEEL, IN THE UPPERMOST POSITION.
3. ASSEMBLY COUPLING HALF ITEM 4 SO THAT THE PUNCHED INDEX MARK (SEE DETAIL DRAWING FOR LOCATION) IS IN THE LOWEST POSITION.
4. WHEN ASSEMBLING THE MOTOR MOUNT ITEM 13, MAKE SURE THE TAPPED HOLE FOR THE MAGNETIC PICKUP ITEM 27 IS UP AND THE #1 STAMPED ON THE HANDWHEEL CAN BE SEEN THRU THE SLOT IN THE MOTOR MOUNT.
5. ASSEMBLY AND ALL ITEMS ARE IDENTICAL FOR FRONT AND REAR ROLLS EXCEPT AS NOTED NEXT TO ITEM NUMBERS IN THE LIST OF COMPONENTS AND ON ROLL ASSEMBLY SKETCHES.
6. PACK CAVITIES AND BEARINGS DESIGNATED WITH SHELL DARINA EP-2 GREASE AT ASSEMBLY.
7. CAPSCREW 43, 50 AND 42 OTHER THAN ISOLATORS, TO BE INSTALLED WITH LOCTITE #271.

IMPORTANT !!

IMMEDIATELY PRIOR TO ASSEMBLY CLEAN ALL X POCKETS OF CHIPS WITH MAGNET.